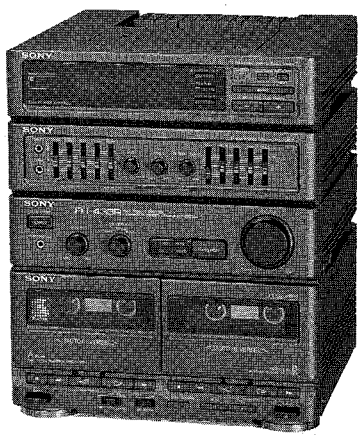
HST-H422/H433

SERVICE MANUAL

Canadian Model
East European Model
HST-H422
E Model
Australian Model
HST-H433



HST-H422/H433 are the STEREO DECK RECEIVER in FH-422R/433R.

Photo : HST-H433

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. " DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	TC-H2600/H3600
Tape Transport Mechanism Type	DECK A TCM-190RA12A
	DECK B TCM-190RB22A

SPECIFICATIONS

Tuner

System — FM stereo
FM/AM superheterodyne tuner

FM tuner section
Intermediate frequency — 10.7 MHz

	CND, E, AUS Model	EE1 Model
Tuning range	87.5 to 108MHz	65.00 to 74.00MHz, 87.50 to 108.00MHz
Antenna	75 ohms unbalanced	

AM tuner section
Intermediate frequency — 450 kHz

• HST-H422

		CND Model	EE1 Model
Tuning range	MW	531 to 1.710kHz (at 9kHz step)	531 to 1.602MHz (at 9kHz step)
	LW		153 to 279kHz
Antenna		AM loop antenna External antenna terminal	

• HST-H433

Tuning range	MW	531 to 1.602MHz (at 9kHz step) 530 to 1.710kHz (at 10kHz step)
	SW	5.950 to 17.900MHz
Antenna	AM loop antenna External antenna terminal	

Amplifier

Peak music power output — 240 W (6 ohms)
Continuous RMS power output — 25 W + 25 W (6 ohms, at 1 kHz, 5% THD)

CND : Canadian
AUS : Australian
EE1 : East European

– continued on next page –

MICROFILM

COMPACT HI-FI STEREO SYSTEM

SONY®

Inputs

	Jack type	Sensitivity	Impedance
VIDEO	Phono	450 mV	47 kohms
CD	Phono	450 mV	47 kohms
MICROPHONE*	Phone	1 mV	10 kohms
MIC 1**	Phone	1 mV	10 kohms
MIC 2**	Phone	1 mV	10 kohms

*For HST-H422
**For HST-H433

Outputs

	Jack type	Impedance
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

Cassette deck

Recording system: 4-track 2-channel stereo
Frequency response: DOLBY NR OFF
With Type II cassette (Sony UX-S)
40 Hz to 14 kHz (±3 dB)
With Type I cassette (Sony HF-S)
40 Hz to 13 kHz (±3 dB)
Wow anf flutter: 0.1 % (WRMS)

General

Power requirements:
HST-H422 (Canadian model)
120 V AC, 60 Hz
HST-H422 (East European model)
220-230V AC, 50Hz
HST-H433 (Australian model)
240V AC, 50Hz
HST-H433
(E model)
110 – 120/220 – 240 V AC
adjustable, 50/60 Hz
Power consumption: Canadian model 105 W
Models for other countries 75 W
AC outlet: Switched, 100 W max.
Weight: Approx. 5.5 kg (12 lb 4 oz)
Dimensions: Approx. 225 × 270 × 260 mm
($8^{7}/_{8} \times 10^{3}/_{4} \times 10^{1}/_{4}$ inches)
(w/h/d, including projections)

TABLE OF CONTENTS

Section Title Page

1. GENERAL
Parts Identification 4

2. DISASSEMBLY 5

3. MECHANICAL ADJUSTMENTS 5

4 ELECTRICAL ADJUSTMENTS 6

5. DIAGRAMS
5-1. Circuit Boards Location 9
5-2. Semiconductor Lead Layouts 10
5-3. Pin Functions of IC501 11
5-4. Printed Wiring Board - Tuner, PC Main section - 12
5-5. Schematic Diagram - Tuner, PC Main section - 15
5-6. Printed Wiring Board - TC Main, Panel section - 19
5-7. Schematic Diagram - TC Main, Panel section - 23
5-8. Printed Wiring Board - Power, MD section - 27
5-9. Schematic Diagram - Power, MD section - 31
5-10. IC Block Diagrams 35

6. EXPLODED VIEWS
6-1. Front Panel Section 37
6-2. Mechanism Section 1 39
6-3. Mechanism Section 2 40
6-4. Mechanism Section 3 41

7. ELECTRICAL PARTS LIST 42

SAFETY-RELATED COMPONENT WARNING!!

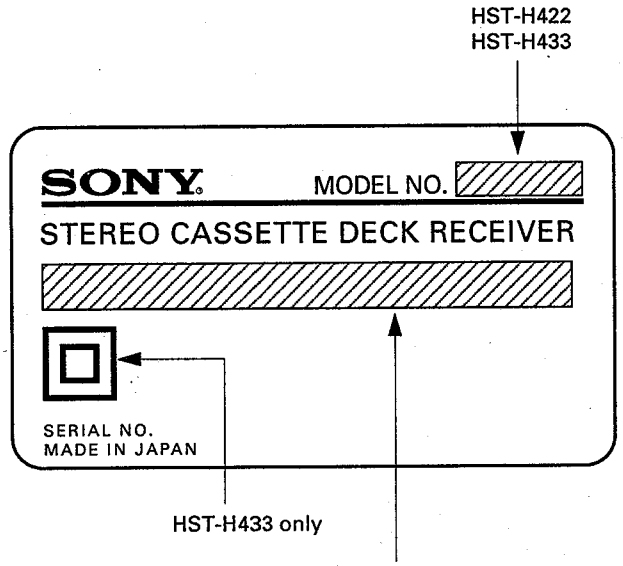
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

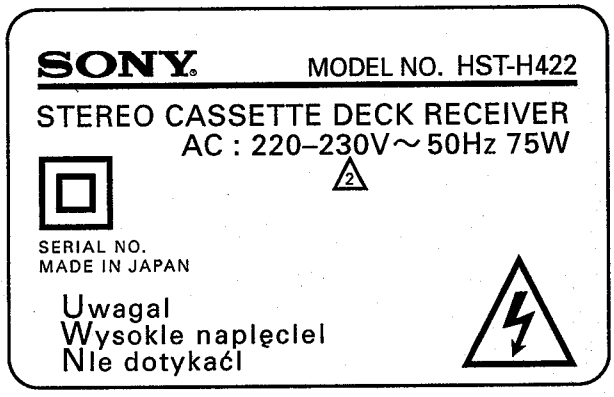
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÉCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER SES COMPOSANTS QUE PAR DES PIÉCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

– Model Number Label –





HST-H422 East European

HST-H422 Canadian model : AC :120V~60Hz 105W
HST-H433 E model : AC :110-120/220-240V~50/60Hz 75W
HST-H433 Australian model : AC :240V~50Hz 75W

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig.A)

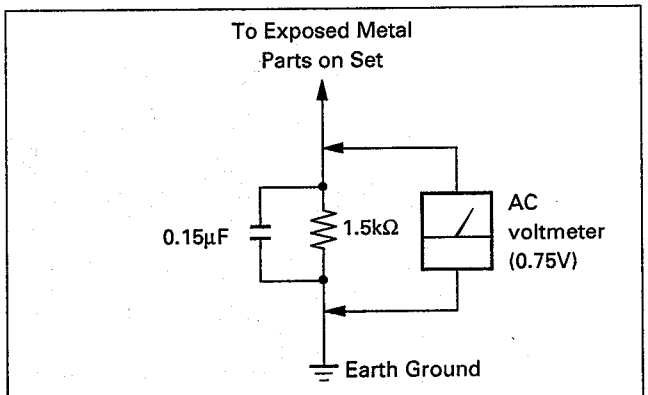
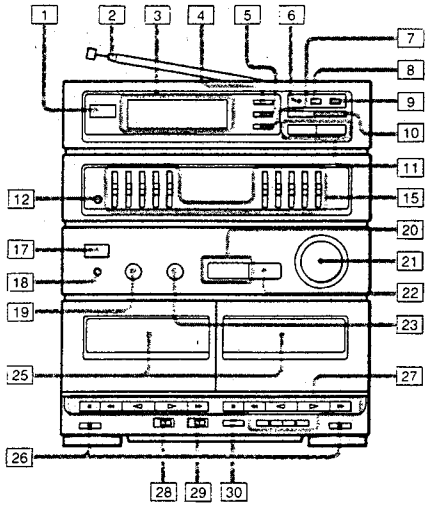
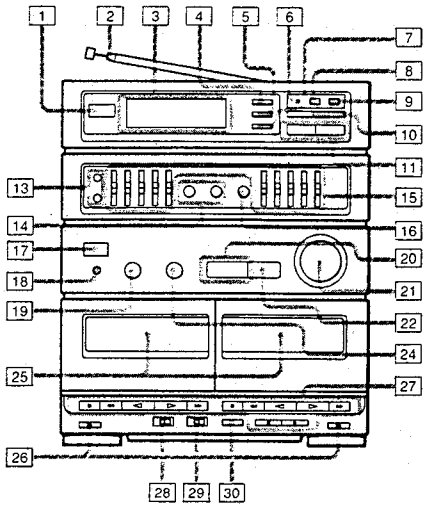


Fig. A. Using an AC voltmeter to check AC leakage.

FH-422R



FH-433R



Parts Identification

Tuner Section

1 REMOTE SENSOR
2 Telescopic antenna
3 Display window
4 TIMER CONTROL button
5 TIMER SET button
6 PRESET indicator
7 CLOCK SET button
8 PRESET/TUNING button
9 MEMORY/NEXT button
10 BAND selector
11 PRESET/TUNING/TIMER + / – buttons

Amplifier Section

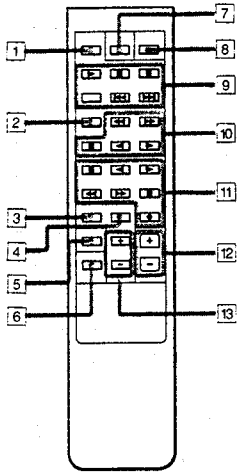
12 MIC (microphone) jack*
13 MIC1/MIC2 (microphone) jacks**
14 MIC1/MIC2 controls**
15 5-band stereo graphic euqlizer
16 DIGITAL ECHO control**
17 POWER switch
18 HEADPHONES jack (stereo minijack)
19 DBFB (Dynamic Bass Feedback) control
20 Function indicators
21 VOLUME control
22 Function selector
23 BALANCE control*
24 MULTIPLEX selector** (KARAOKE/STEREO/VOCAL)

* for FH422R (Canadian model) only
** for FH433R (model for other countries) only

Cassette Deck Section

25 Cassette holders
26 ⏏ EJECT buttons
27 Tape operation buttons
◀◀/▶▶: Fast winding
▶: Forward play
◀: Reverse play
■: STOP
❚❚: PAUSE (deck B only)
●: REC (deck B only)
28 DIRECTION MODE selector
29 DOLBY NR switch
30 HIGH SPEED DUBBING button

Parts Identification



Remote Commander

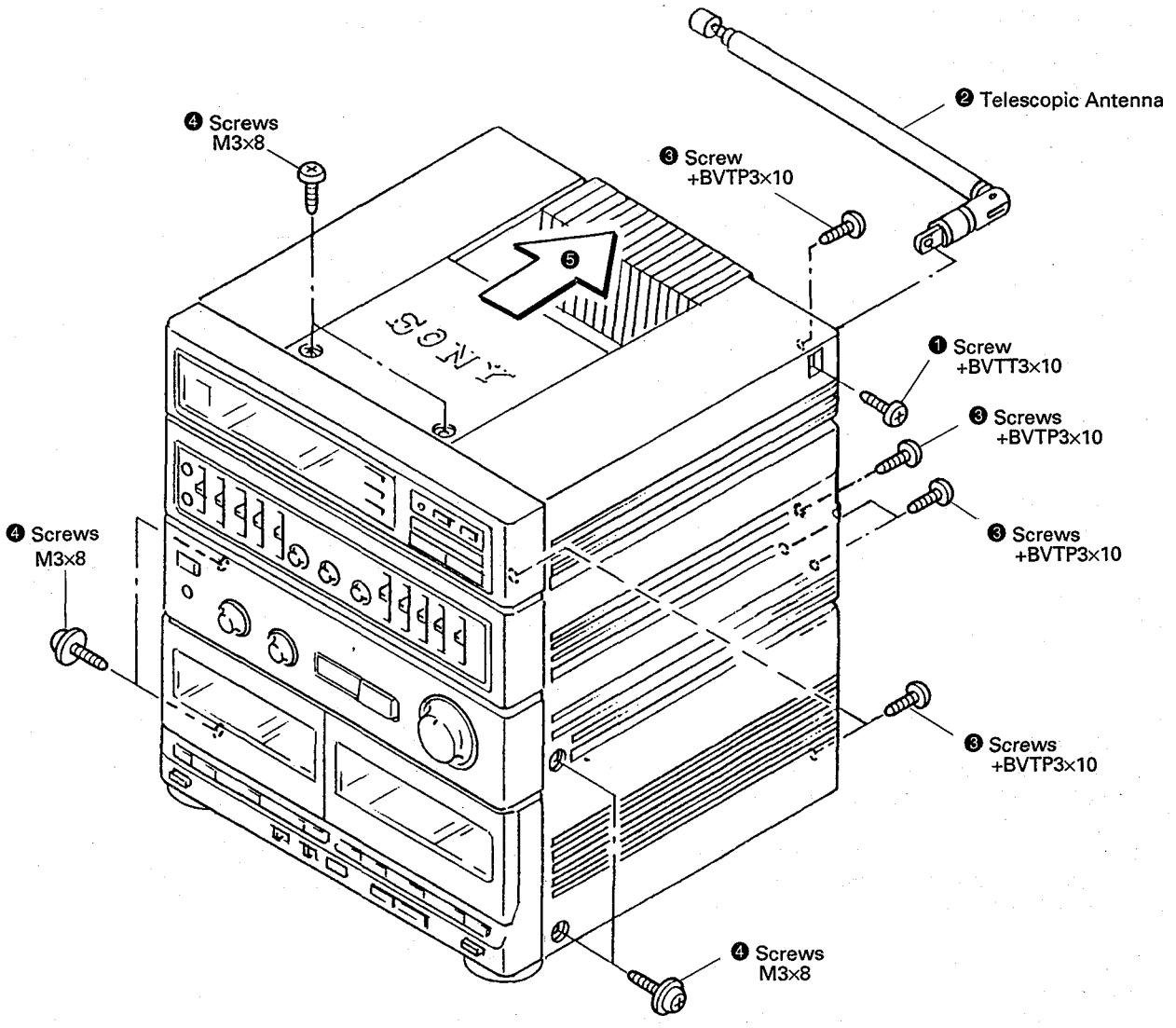
1 CD function button
2 TAPE function button
3 TUNER fuction button
4 BAND selector
5 PHONO function button
6 VIDEO function button
7 SLEEP button
8 POWER switch
9 CD player operation buttons
10 Tape deck A operation buttons
11 Tape deck B operation buttons
12 VOLUME + / – buttons
13 PRESET + / – buttons

Sony Corporation Printed in Japan

SECTION 2
DISASSEMBLY

HOW TO REMOVE THE CASE

Unscrew screw ❶ (+BVTT 3×10) to remove the telescopic antenna ❷.
Unscrew 12 screws ❸ to ❹.
Remove the case by ❺ lifting it upward.



SECTION 3
MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback heads — pinch roller
   erase heads — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

torque	Torquement	Meter reading
FWD	CQ-102C	35-60g·cm (0.49-0.83oz·inch)
FWD Back tension	CQ-102C	2-6g·cm (0.03-0.08oz·inch)
REV	CQ-102RB	35-60g·cm (0.49-0.83oz·inch)
REV Back tension	CQ-102RB	2-6g·cm (0.03-0.08oz·inch)
FF, REW	CQ-201B	70-110g·cm (0.97-1.53oz·inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

1. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
2. The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
  DOLBY NR Switch : OFF
- Short terminals of TP-401 on the TC MAIN BOARD.

Standerd tape

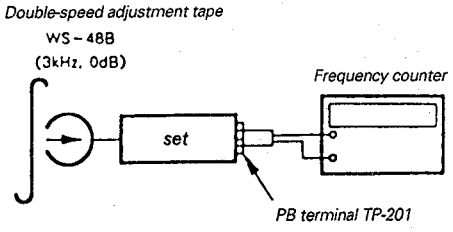
Tape	Specification	Use
P-4-A100	10kHz, –10dB	for vertical adjustment
P-4-L300	315Hz, 0dB	for level adjustment
WS-48B	3kHz, 0dB	for tape speed

Tape Speed Check

Procedure :

- First adjust the double speed mode.

Mode : FWD playback



(Double-speed adjustment)

1. Turn ON the main switch and set Deck A in FWD state.
2. Press the HIGH SPEED button (double-speed playback mode is effected).
3. Adjust Deck A: RV72A (H) so that the frequency counter indicates an adjustment target value 6,000Hz ± 60Hz.
4. Operate Deck B: RV72B (H) also in the same way as 2 and 3.

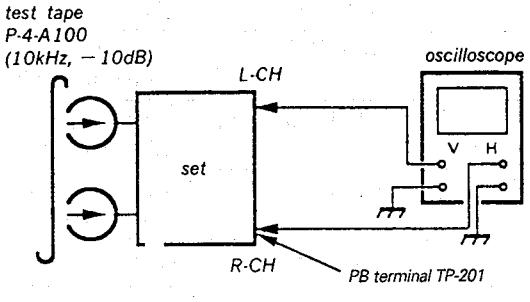
(Reted-speed adjustment)

1. Effect FWD playback state.
2. Adjust Decks A: RV71A (L) and B: RV71B (L) so that the frequency counter indicates an adjustment target value 3,000Hz ± 30Hz.

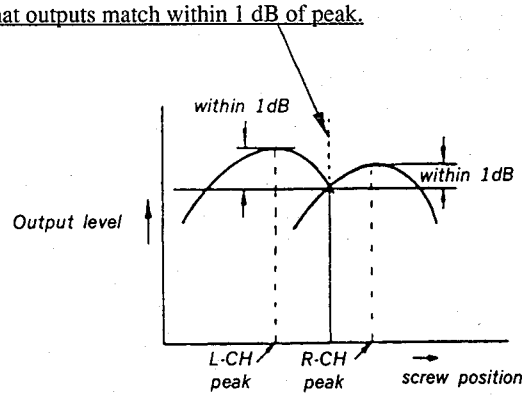
Record/Playback Head Azimuth Adjustment

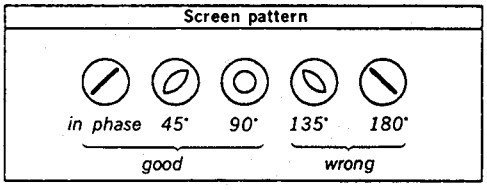
Procedure :

1. Mode : FWD playback



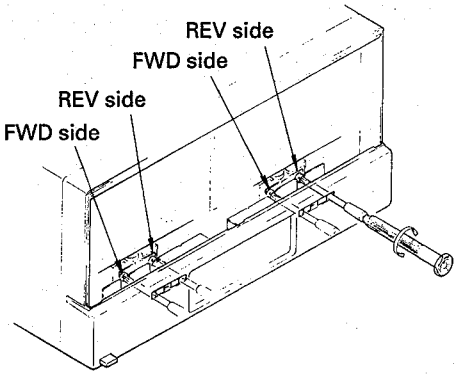
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.





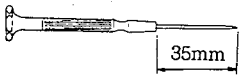
3. Mode : REV
   Repeat step 1 and 2.
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location : REC/PB HEAD

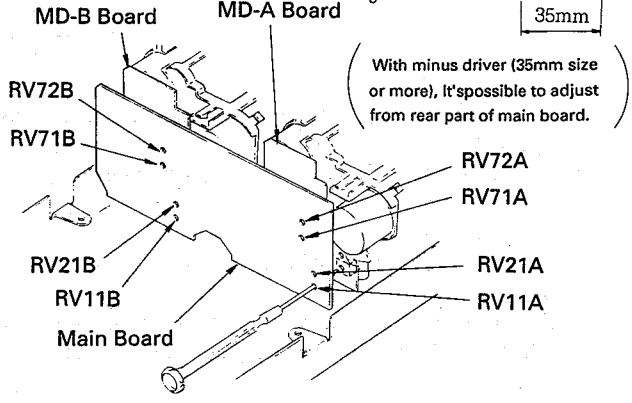


Tape Speed/Playback level Adjustment

Tool for adjustment of MD section



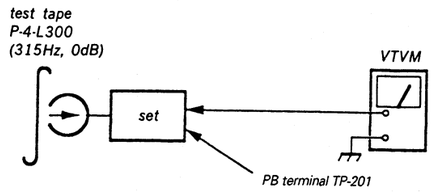
With minus driver (35mm size or more), It'spossible to adjust from rear part of main board.



Playback Level Adjustment

Procedure :

Mode : FWD playback



Adjust,
RV11 (L-CH), RV21 (R-CH)
so that the specifications are satisfied.

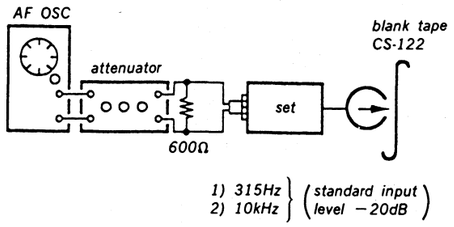
Specification :

OUTPUT level : 0.35 to 0.44V
(–7dBs to –5dBs)
level difference between the channels : within 1.0dB.

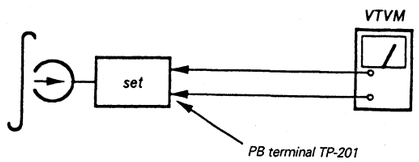
Record BIAS Current Adjustment

Procedure :

1. Mode : record



2. Mode : playback



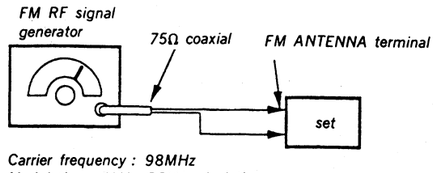
Specification :

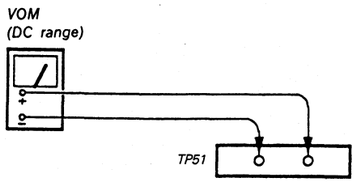
The OUTPUT level of 10kHz signal relative to that of 315Hz : –1 to 1dB.
Adjust,
playback the recorded in step 1. If the specification is not satisfied, adjust RV12 (L-CH), RV22 (R-CH) and repeat steps 1 and 2.

FM SECTION

FM Discriminator Alignment (NULL Check)

Setting :





Procedure :

1. Push the TUNING (+,–) button for 98MHz.
2. Adjust IFT51 for 0V reading the VOM.

Note : FM tuner indication lighting level adjustment should be made after FM discriminator alignment.

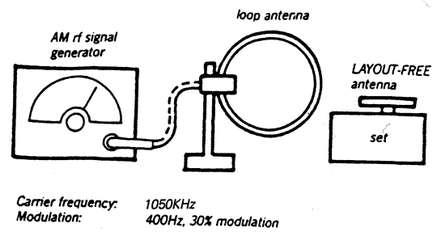
FM Tuned Indication Lighting Level Adjustment

BAND select switch : FM

1. Output 32μV (30dB), 98MHz from FM RF signal generator
2. Adjust RV52 so that the FL501 TUNED light up.

AM SECTION

Setting :



Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

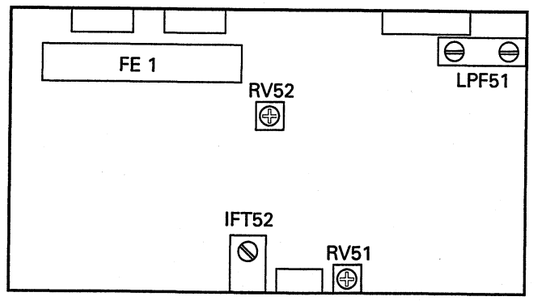
MW(AM) Tuned Indication Lighting Level Adjustment

BAND select switch : AM

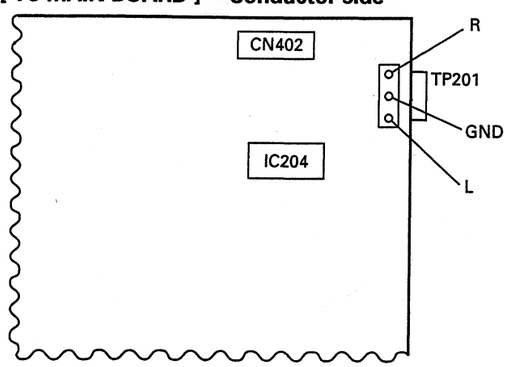
1. Output 0.56mV (55dB), 1,050MHz from AM RF signal generator.
2. Adjust RV51 so that the FL501 TUNED light up.

ADJUSTMENT LOCATION

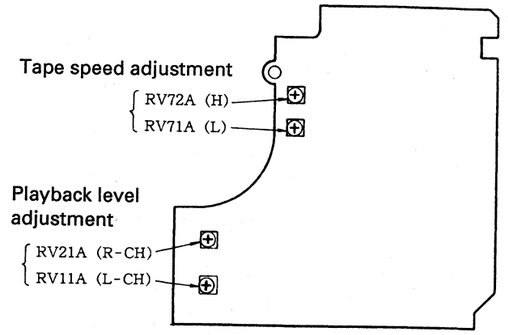
[TUNER BOARD] – Component side –



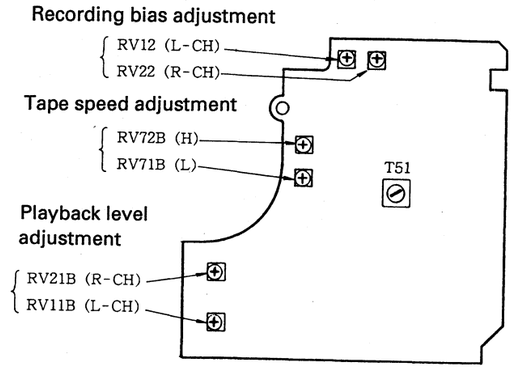
[TC MAIN BOARD] – Conductor side –



[MD-A BOARD] – Component side –



[MD-B BOARD] – Component side –



TEST M

When pins
upon turni
adjustmen

(1) Double
Continuou
capstan m

(2) Slide s
Moving th
of Deck A

However,
seconds.

5-1. CIF

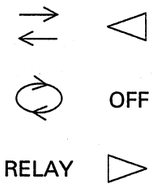
HEAD

TEST MODE

When pins ⑯ and ⑳ of IC401 are shorted (that is, TP401 is shorted) upon turning ON the power switch, the test mode for electrical adjustment is effected while actuating the following functions.

(1) Double-speed playback
Continuously press the HIGH DUBBING button. At that time, both capstan motors, Deck A and B rotate.

(2) Slide switch
Moving the DIRECTION MODE switch lights up the running LED of Deck A.

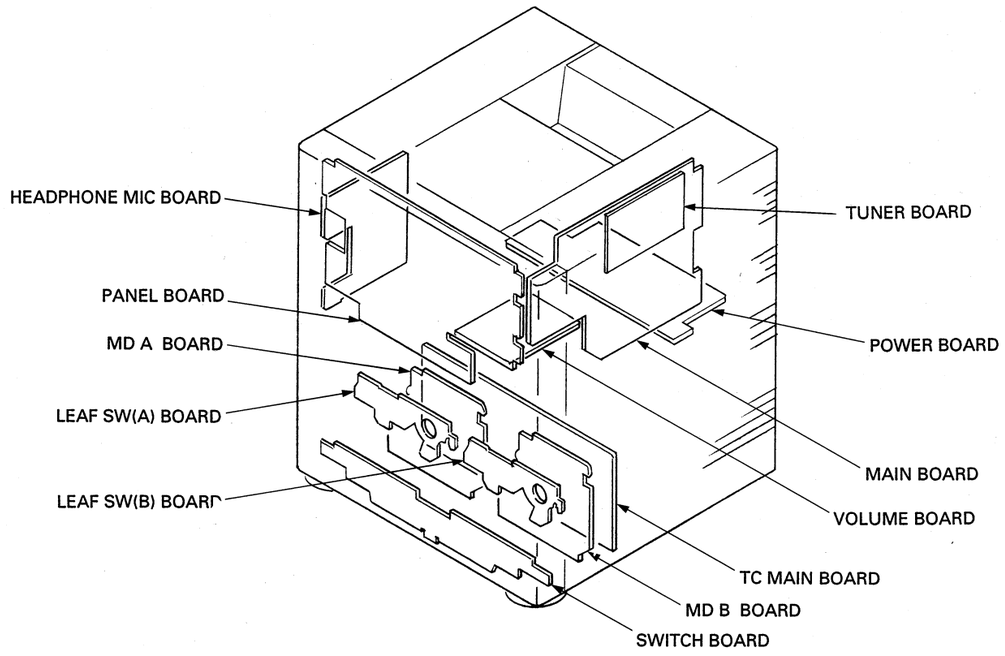


However, the normal indication resumes automatically in about 2 seconds.

(3) Stop of recording memory
Memory stop function is actuated at the point where recording was begun.
The DIRECTION MODE switch is operable only by the → and ← keys. At that time, FF or REW speed becomes smaller. The memory stop point remain in effect until AMS is activated.

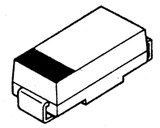
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

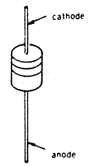


5-2. SEMICONDUCTOR LEAD LAYOUTS

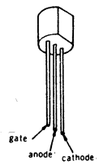
EC10DS2



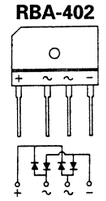
HZS24-1L, 1SS120
11ES2



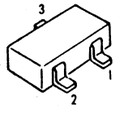
KV1560NT



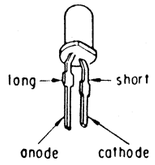
RBA-402



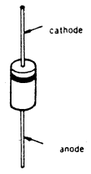
RD9.1M-B1



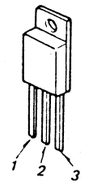
SEL2210S-CD



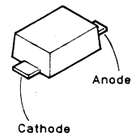
UZL-12L2, UZ-6.2BSC



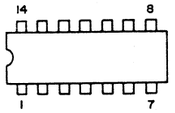
UZ-5.1BSC



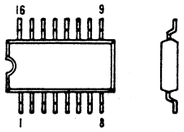
1SS355



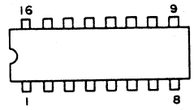
CD4066BCM-FL63



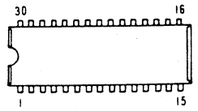
CXA1011M



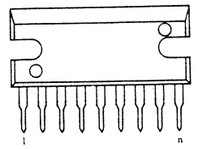
CXA1398M
MC14052BCP
M5226FP



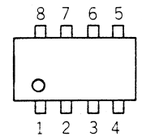
LA1851NM



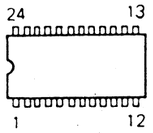
LA5603



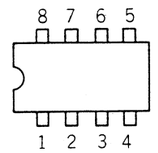
LB1639, TC89101P



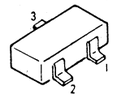
LC7218M



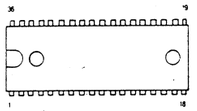
LM833M-FL63
M5218AFP, RC4558S



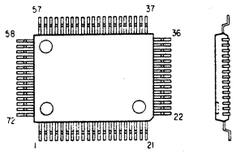
MC14053BFP



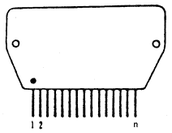
M50197FP



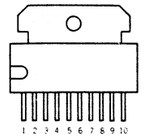
M50964-251FP



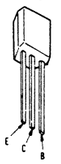
STK4122MK2



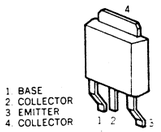
TA7272P



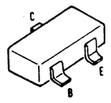
DTC114ES, 2SA1344



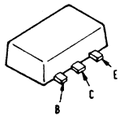
2SA1341



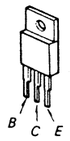
2SA1602, 2SC2814-F4
2SC3398



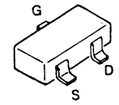
2SA1678, 2SB1122-S
2SC3859, 2SC4154-F
2SC4398, 2SC4666B
2SD1615A-GP



2SB1094-L



2SK208GR3



5-3. PIN FUNCTION OF IC501 (TMP47C870N)

Pin No.	Pin name	I/O	Active	Description
1	VKK	I	L	For FL tube –25V
2-6	S0-S4	O	H	FL tube segment output
7-9	S5-S7	O	H	FL tube segment output (Key output)
10, 11	S8, S9	O	H	FL tube segment output
12,13	S10, S11	O	H	Key scan output
14-17	K00-K03	I	H	Key scan input
18	TEST	I	H	Input port for test terminal
19	X IN	I		Oscillator connection terminal (4.190304MHz)
20	X OUT	O		Oscillator connection terminal (4.190304MHz)
21	$\overline{\text{RESET}}$	I		Reset signal input
22	$\overline{\text{SENS}}$	I		Not in use
23	P00	O	L	MUTING output
24	R60	O	L	Volume up (LOUD)
25	R61	O	L	Volume down (WEAK)
26	R62	I	L	STEREO input
27	R63	I	L	TUNED input
28	P10	O	L	PRESET MODE output
29	P11	O	L	RELAY output
30	P12	O	L	FUNCTION output A
31	P13	O	L	FUNCTION output B
32	VSS			
33	P20	O	L	FUNCTION LED 1 VIDEO/AUX
34	P21	O	L	FUNCTION LED 2 TUNER
35	P22	O	L	FUNCTION LED 3 CD
36	P23	O	L	FUNCTION LED 4 TAPE
37	R70	I	L	Detection of power interruption input
38	R71	O	L	CE (for nonvolatile memory)
39	XT IN	I		Low frequency oscilator connection terminal (32.768kHz)
40	XT OUT	O		Low frequency oscilator connection terminal (32.768kHz)
41	$\overline{\text{INT2}}$	I	L	SIRCS input
42	R81	O	L	AU BUS output
43	$\overline{\text{INT1}}$	O	L	TC PLAY
44	R83	O	L	CE (for PLL)
45	SI	I	L	Serial data input
46	S0	O	L	Serial data output
47	SCK	I/O	L	Serial clock input/output
48-51	R30-R33	O	H	Key scan output
52-54	G9-G11	O	H	
55-63	G0-G8	O	H	FL tube digit output
64	VDD	I		

● SEMICONDUCTOR LOCATION

• TUNER BOARD

Ref. No	Location (EE1)	Location (E/EA/AUS)
D1		H-6
D21	D-4	H-4
D51	D-2	H-2
IC21	C-5	H-5
IC51	D-3	H-3
Q1	B-3	G-3
Q3	C-4	G-4
Q4	D-6	I-6
Q5	D-7	I-6
Q6	D-6	H-7
Q7	D-7	
Q21	C-4	H-4
Q22	C-6	H-6
Q23	C-6	G-6
Q24	C-7	
Q25	C-7	
Q51	C-2	G-2
Q52	C-2	G-2
Q53	B-3	G-2

• MAIN BOARD

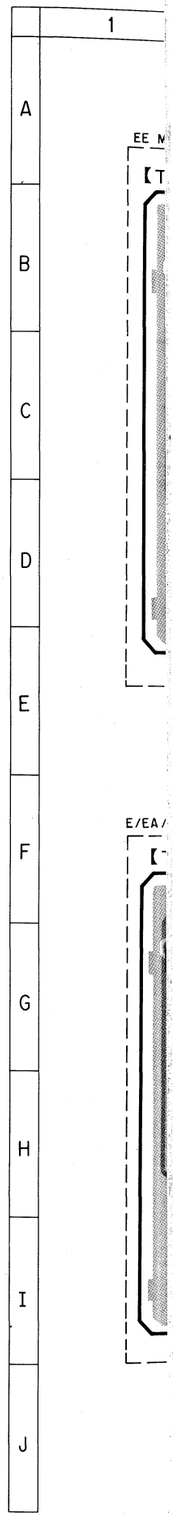
Ref. No	Location
D101	D-14
D102	D-14
D103	D-13
D104	D-13
D105	D-13
D106	D-13
D107	F-15
D108	F-12
D109	G-13
D110	G-13
D111	H-10
D112	E-12
D113	I-11
D114	I-12
D115	H-13
IC101	E-13
IC102	H-12
Q51	C-2
Q52	C-2
Q53	B-3
Q101	E-15
Q102	F-13
Q103	E-13
Q104	D-12
Q105	I-12

Note:

- ○——: indicated a lead wire mounted on the component side.
- ■ : parts mounted on the conductor side.
- ⊢ : indicates side identified with part number.
- ● : Through hole.
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

- CND : Canadian Model
- AUS : Australian Model
- EA : Saudi Arabia Model
- EEI : East European Model

5-4. PRINTED



5-4. PRINTED WIRING BOARD – TUNER, MAIN SECTION –

EE MODEL

【TUNER BOARD】

(TCB011)

I-638-878

E/EA/CND/AUS MODEL

【TUNER BOARD】

E/EA MODEL

E/EA MODEL

CND/AUS MODEL

CND/AUS MODEL

(TCB011)

I-638-879

【MAIN BOARD】

ANTENNA

CD

VIDEO/AUX

To POWER BOARD SAN901

To TC MAIN BOARD CN407

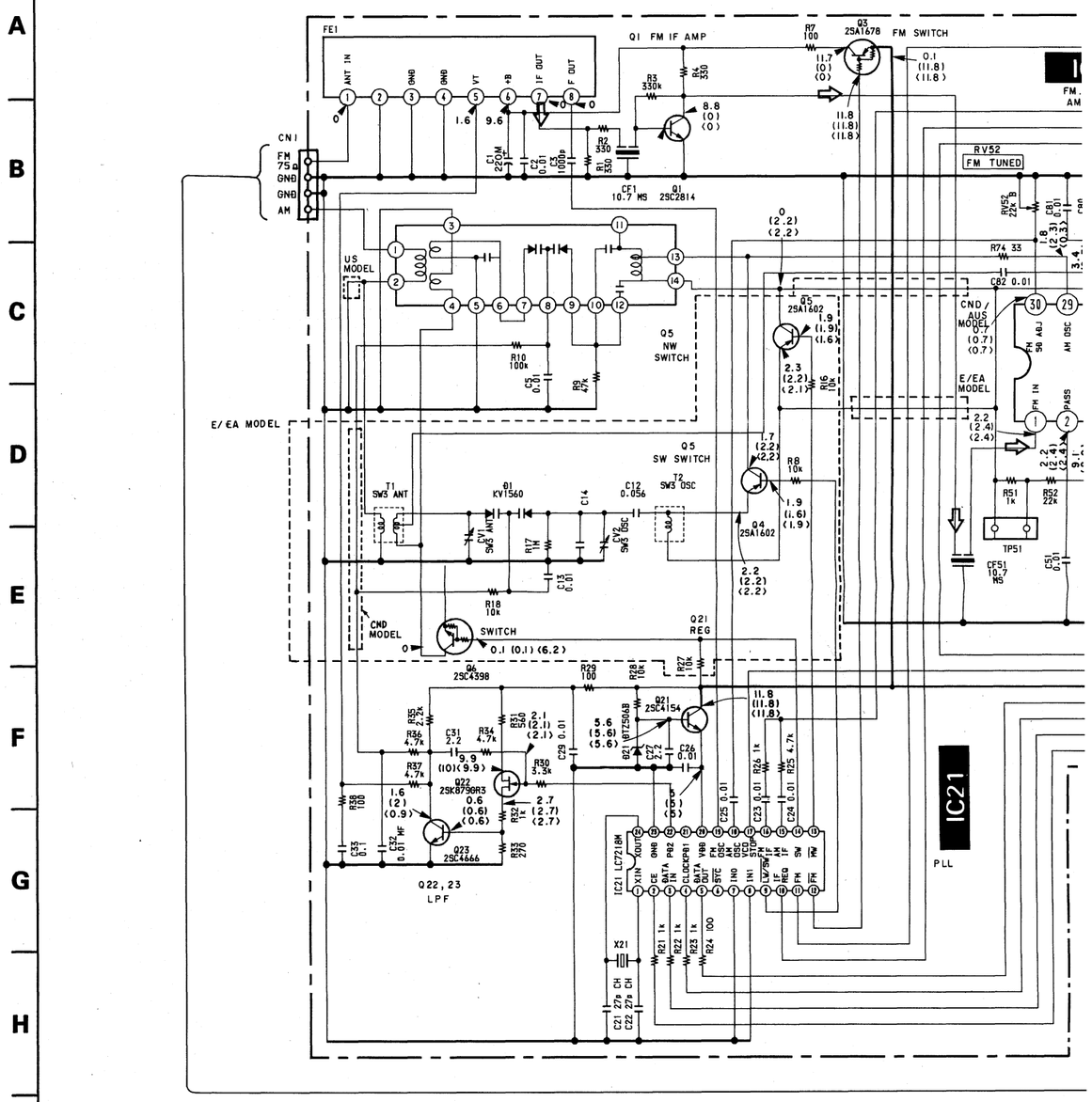
To PANEL BOARD CN501

To PANEL BOARD CN502

To PANEL BOARD CN503

I-638-359

5-5. SCHEMATIC DIAGRAM – TUNER, MAIN SECTION –



Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4W or less unless otherwise noted.
- △ : internal component.
- ⏦ : Fuse resistor

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B + Line.
- ▪▪▪▪ : B – Line.
- ▭ : adjustment for repair.
- Voltage are dc with respect to ground under no -signal (STOP) conditions.
- no mark : FM
  ( ) : MW
  < > : SW
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path
  ⇨ : FM
  ⇨ : PB
  ⇨ : REC

- CND : Canadian Model
- AUS : Australian Model
- EA : Saudi Arabia Model
- EEI : East European Model

Refer to page 35 for IC BLOCK DIAGRAMS.

7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18

TUNER BOARD E/EA/CND/AUS MODEL

IC51 FM. MP. DET/ AM. IF. DET

IC21 PLL

IC102 LINE SWITCH

MC14502

IC102 MC14052BCP

MAIN BOARD

TUNER

TBI01 ANTENNA

VIDEO/AUX

CD

TO TC MAIN BOARD F

To page 25

TUNER BOARD EE1 MODEL

IC51
FM. MPX. DET/
AM. IF. DET

IC21
PLL

IC101
LA5603 VOLTAGE CONTROL

IC21
1 2.3 (2.3) (2.3)
2 0 (0) (0)
3 0 (0) (0)
4 0 (0) (0)
5 0.1 (0.1) (0.1)
6 0 (0) (0)
7 0 (0) (0)
8 0 (0) (0)
9 1.9 (2.0) (0.1)
10 0 (0) (0)
11 5 (0) (0)
12 0.1 (11.8) (11.8)
13 1.9 (0) (2.1)
14 0.1 (0.1) (4.0)
15 0 (0) (0)
16 0 (0) (0)
17 8.6 (8.3) (8.3)
18 0 (2.6) (2.6)
19 2.6 (0) (0)
20 5 (5) (0)
21 1.9 (5) (0)
22 2.3 (5) (0)
23 0 (0) (0)
24 2.6 (2.6) (2.6)

TO PANNEL BOARD H

To page 26

TO POWER BOARD I

To page 31

TO PANNEL BOARD G

To page 25

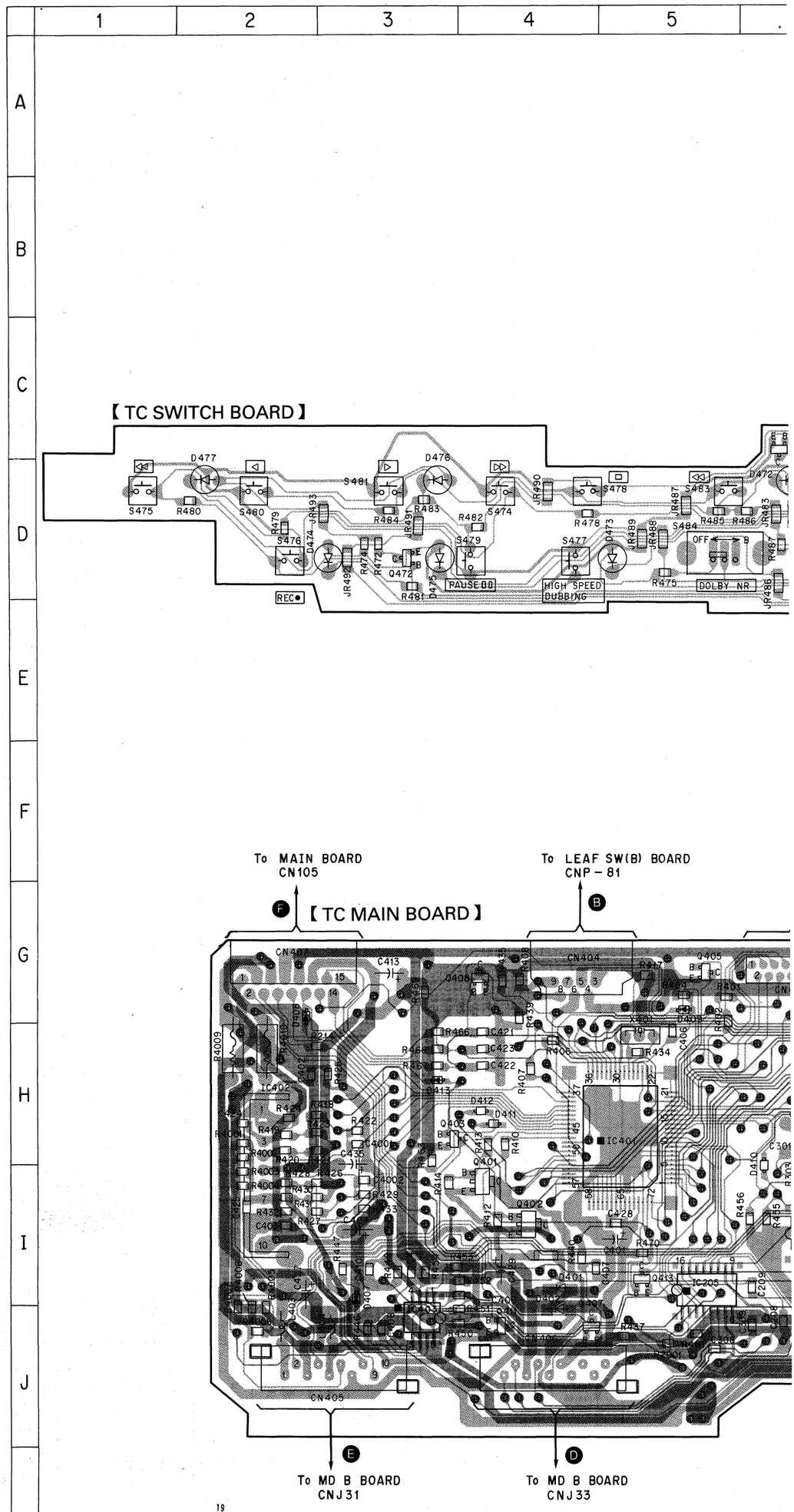
NO MARK : POWER ON
( ) : POWER OFF

5-6. PRINTED WIRING BOARD – TC MAIN, PANEL SECTION –

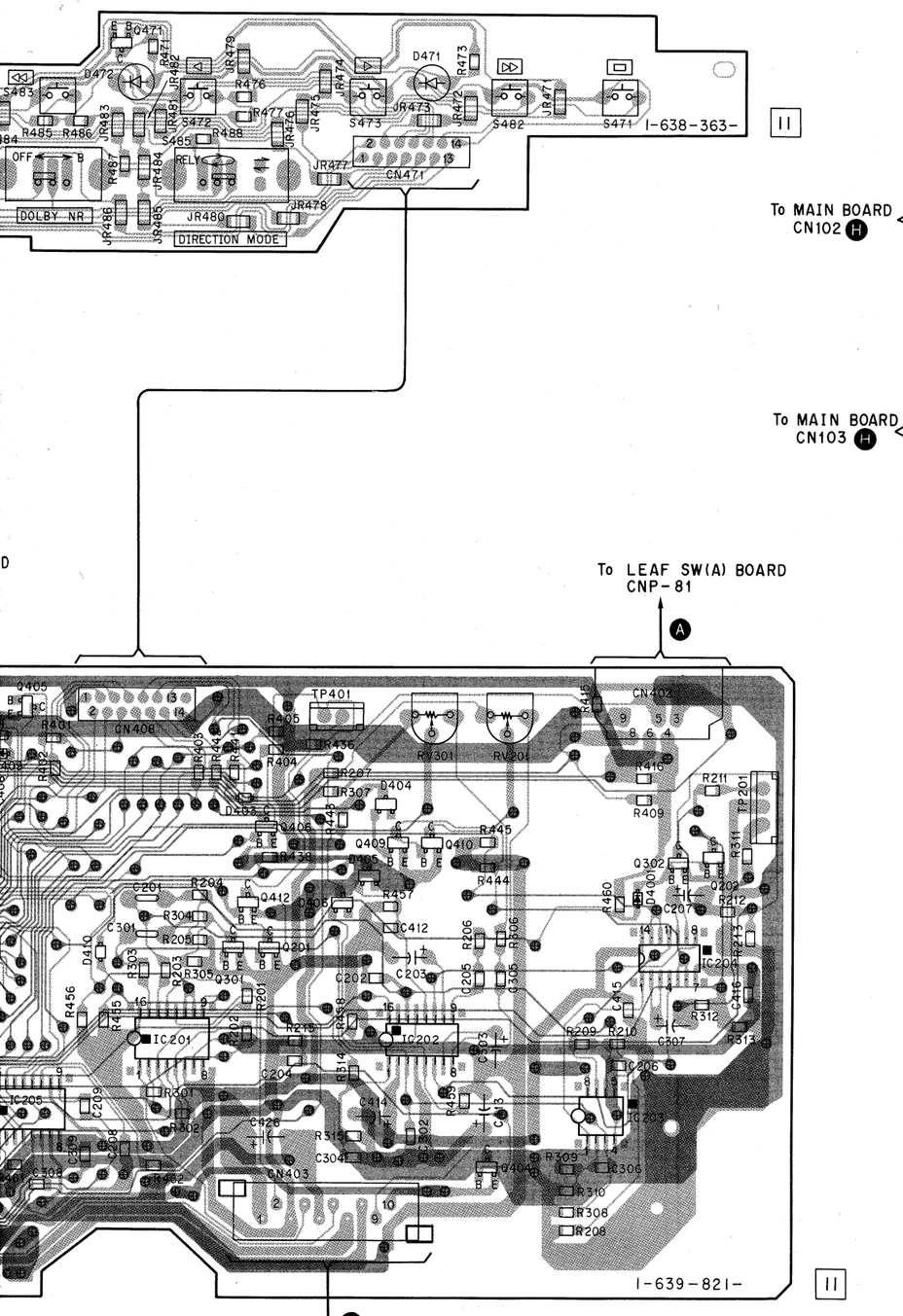
• TC SWITCH / TC MAIN / PANEL / VOL / H.P/MIC BOARD

Ref. No	Location	Ref. No	Location	Ref. No	Location
D401	I-4	D521	D-18	Q409	H-17
D402	I-4	D801	I-9	Q410	H-8
D403	H-6	D909	I-11	Q411	J-4
D404	H-7	D4001	H-9	Q412	H-7
D405	H-7			Q413	I-5
		D516	D-14		
D406	H-7	D631	J-19	Q471	C-6
D407	I-3			Q472	D-3
D408	G-2			Q501	F-11
D409	G-5	IC201	I-6	Q502	D-18
D410	H-6	IC202	I-8	Q601	J-16
		IC203	I-9		
D411	H-4	IC204	I-9	Q602	I-17
D412	H-4	IC205	I-5	Q603	J-17
D413	H-3			Q801	K-13
D471	D-7	IC401	H-5	Q802	H-13
D472	D-6	IC402	H-2	Q803	J-13
		IC403	J-3		
D473	D-5	IC501	C-16	Q852	I-13
D474	D-3	IC502	C-18	Q853	J-13
D475	D-3				
D476	D-3	IC503	D-14		
D477	D-2	IC504	E-15		
		IC505	E-17		
D501	G-15	IC555	E-13		
D502	H-14	IC601	K-18		
D503	G-14				
D504	H-15	IC602	J-19		
D505	C-12	IC801	K-14		
D506	D-15				
D507	D-14	Q201	I-7		
D508	C-14	Q202	H-9		
D509	D-14	Q301	I-7		
D510	D-13	Q302	H-9		
		Q401	I-4		
D511	C-13				
D512	C-13	Q402	I-4		
D513	C-13	Q403	H-4		
D514	D-14	Q404	J-8		
D517	D-14	Q405	G-5		
		Q406	H-7		
D518	D-14				
D519	D-13	Q407	J-4		
D520	D-15	Q408	G-4		

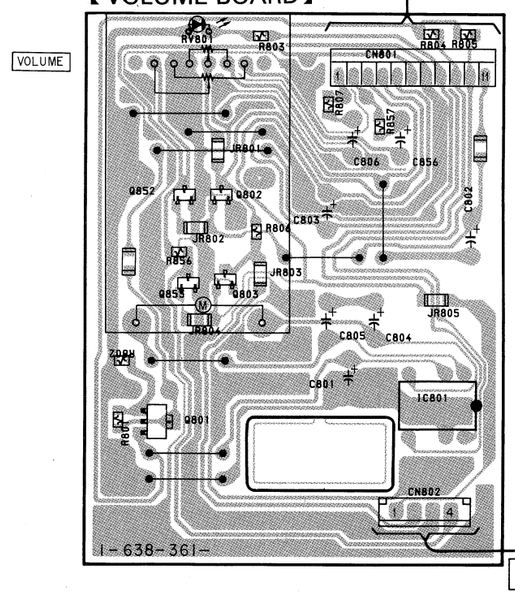
Note:
- o——: indicated a lead wire mounted on the component side.
- ■ : parts mounted on the conductor side.
- ⊗ : Through hole.
- ▒▒ : Pattern from the side which enables seeing.
- ▒▒ : Pattern of the rear side.

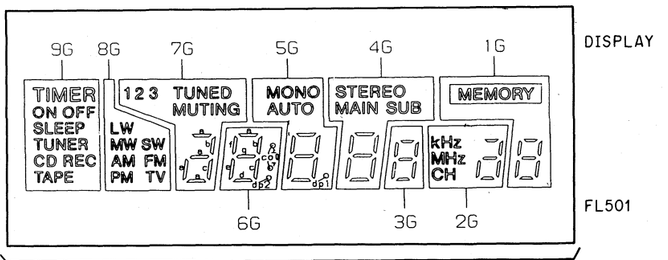


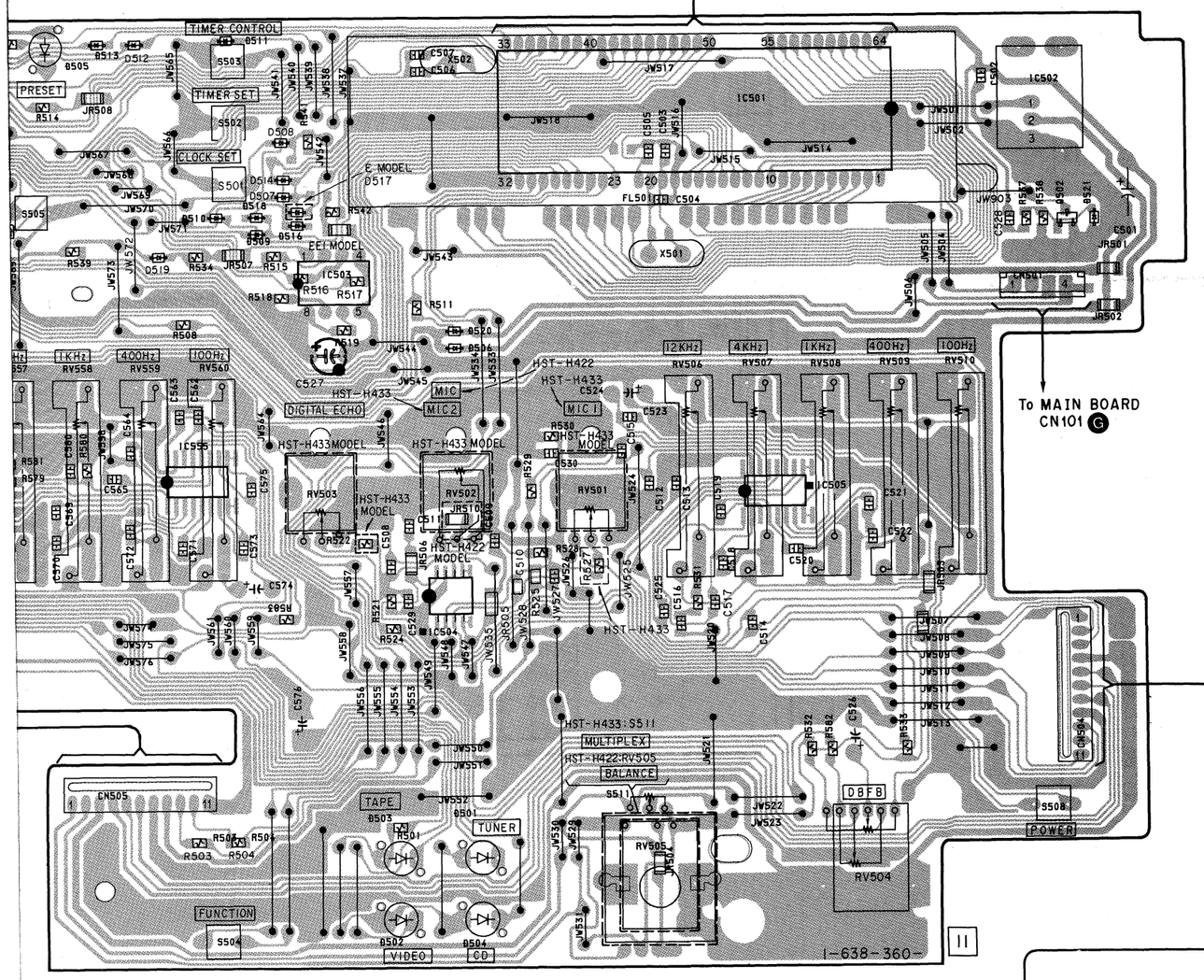
【PANEL BOARD】



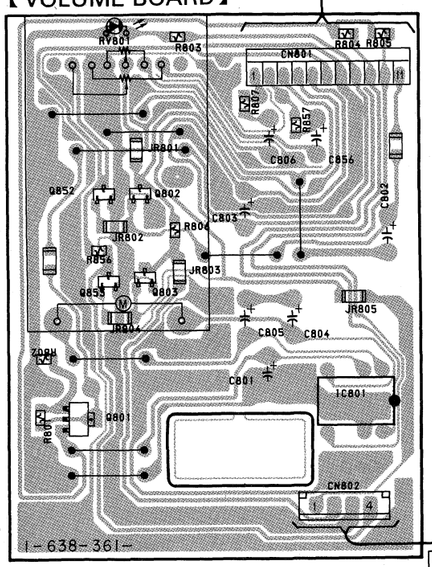
【VOLUME BOARD】



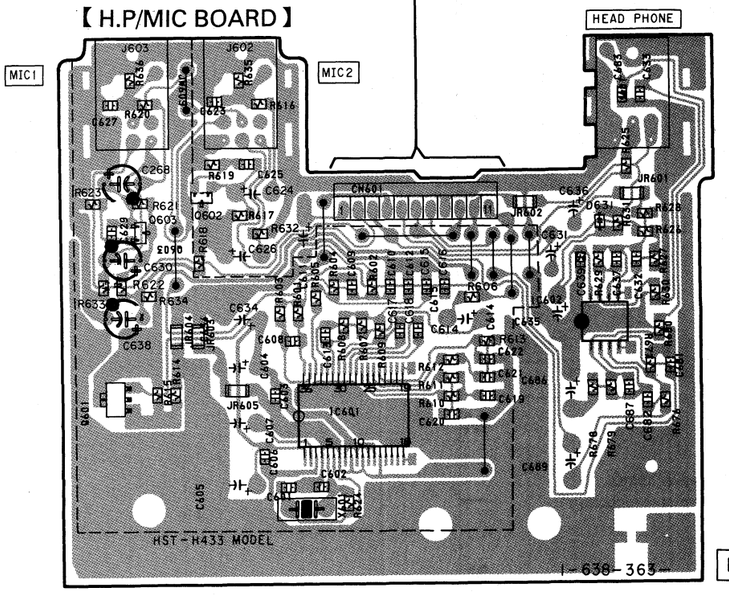




【VOLUME BOARD】

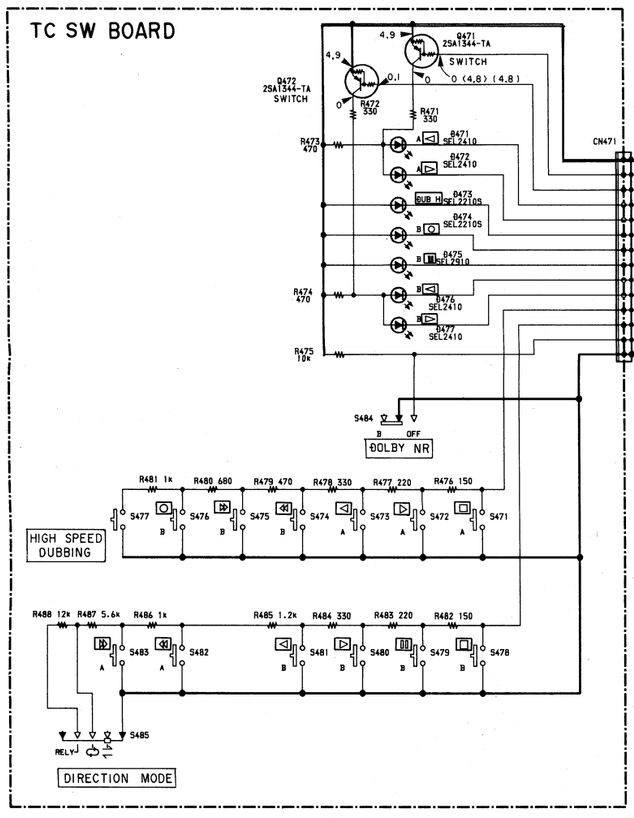


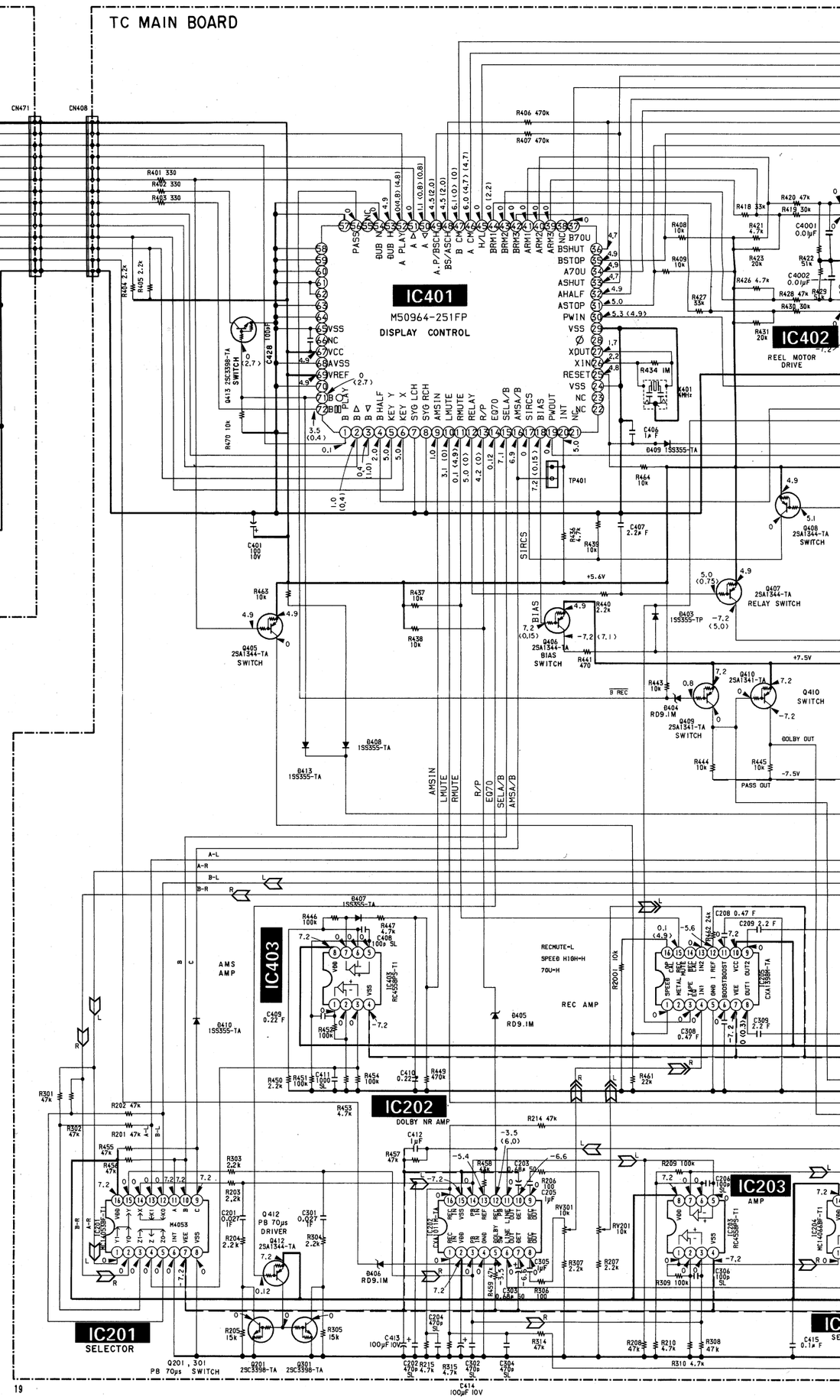
【H.P/MIC BOARD】



5-7. SCHEMATIC DIAGRAM – TC MAIN, PANEL SECTION –

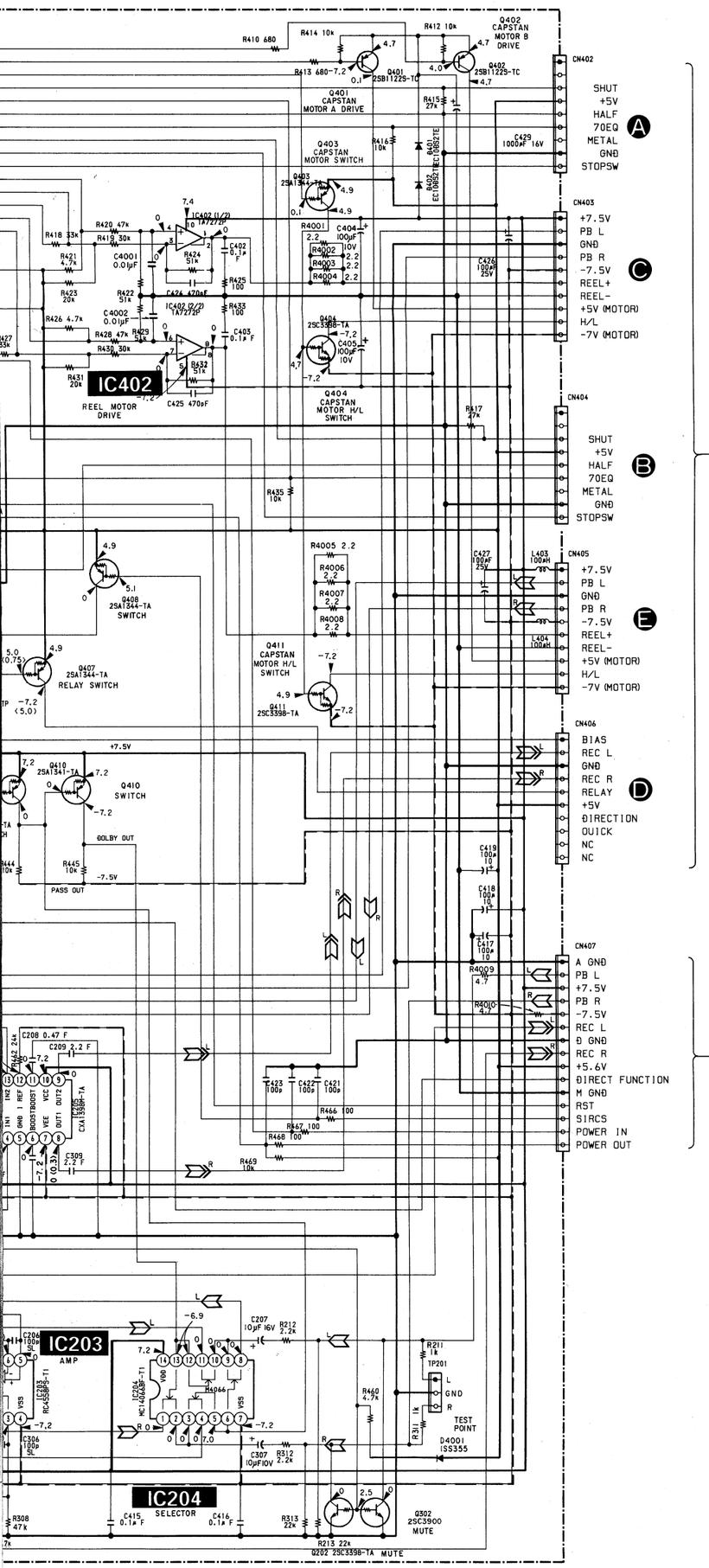
Refer to page 35 for IC BLOCK DIAGRAMS.





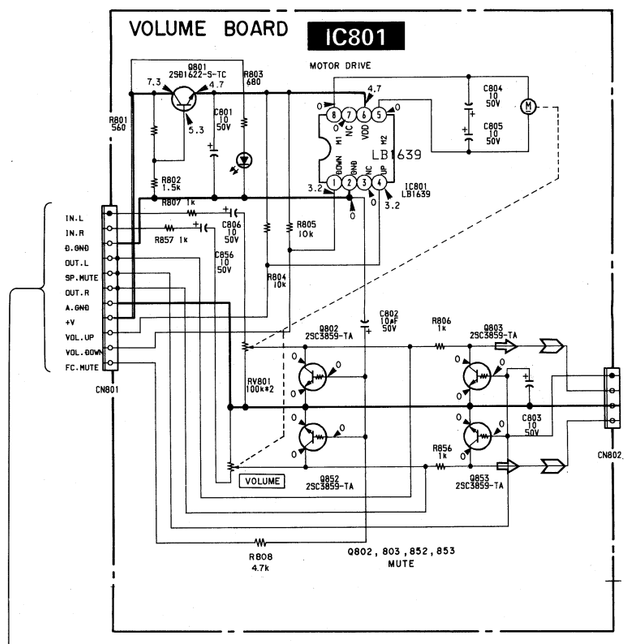
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4W or less unless otherwise noted.
- △ : internal component.
- ▬▬ : B+ Line.
- ▪▪▪▪ : B– Line.
- ▭ : adjustment for repair.
- Voltage are dc with respect to ground under no -signal (STOP) conditions.
- no mark : Stop, FM
  ( ) : PB
  < > : REC
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path
  ⇨ : FM
  ⇨ : PB
  ⇨ : REC

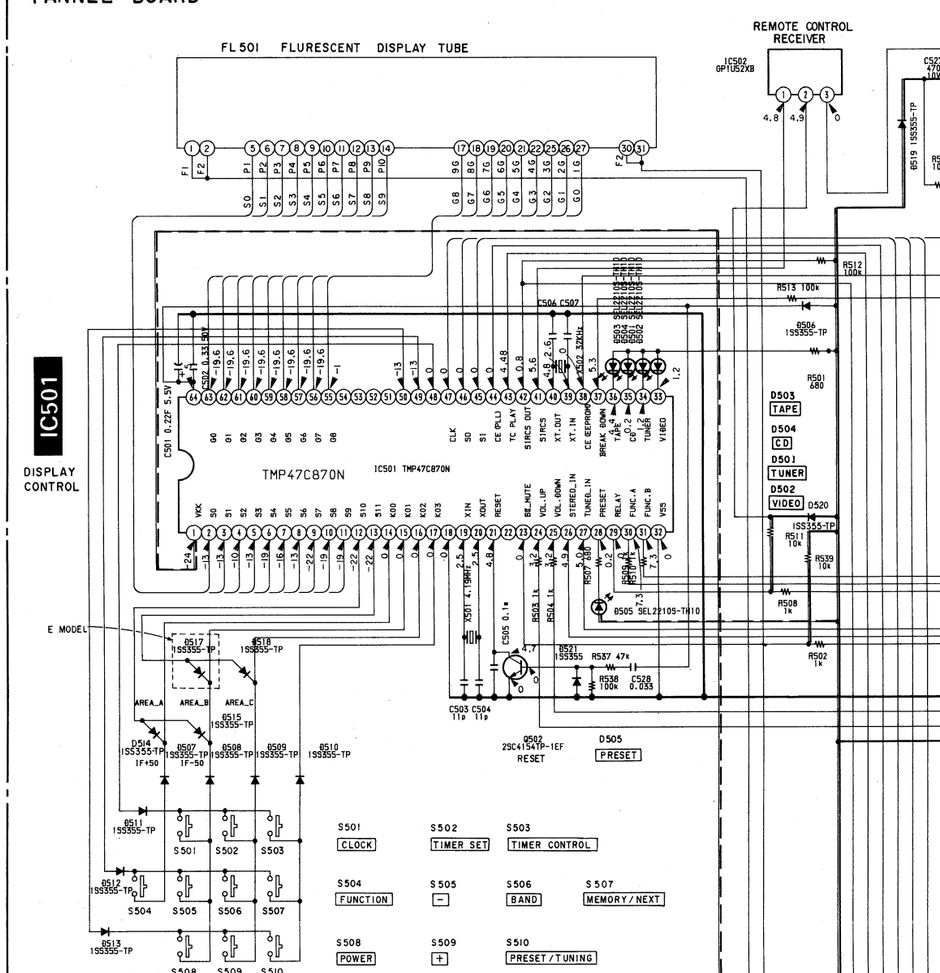


TO MD A/B BOARD Ⓐ ~ Ⓔ AND LEAF SWITCH BOARD

To page 32–34



To page 3



TO MAIN BOARD Ⓕ

To page 17

TO MAIN BOARD Ⓖ

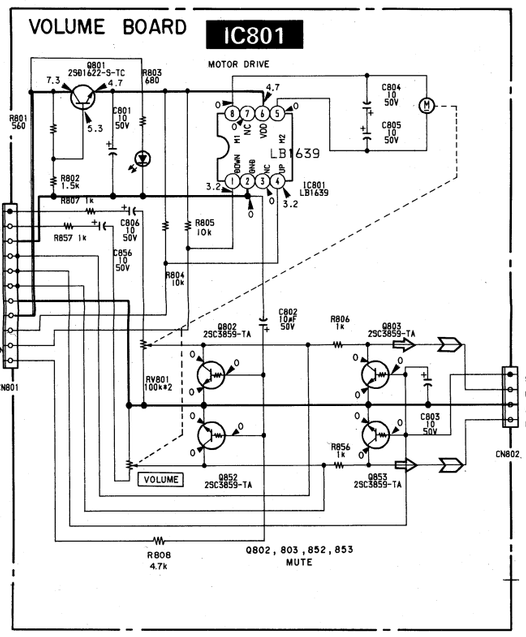
To page 18

TO MAIN BOARD Ⓗ

To page 18

To page 32–34

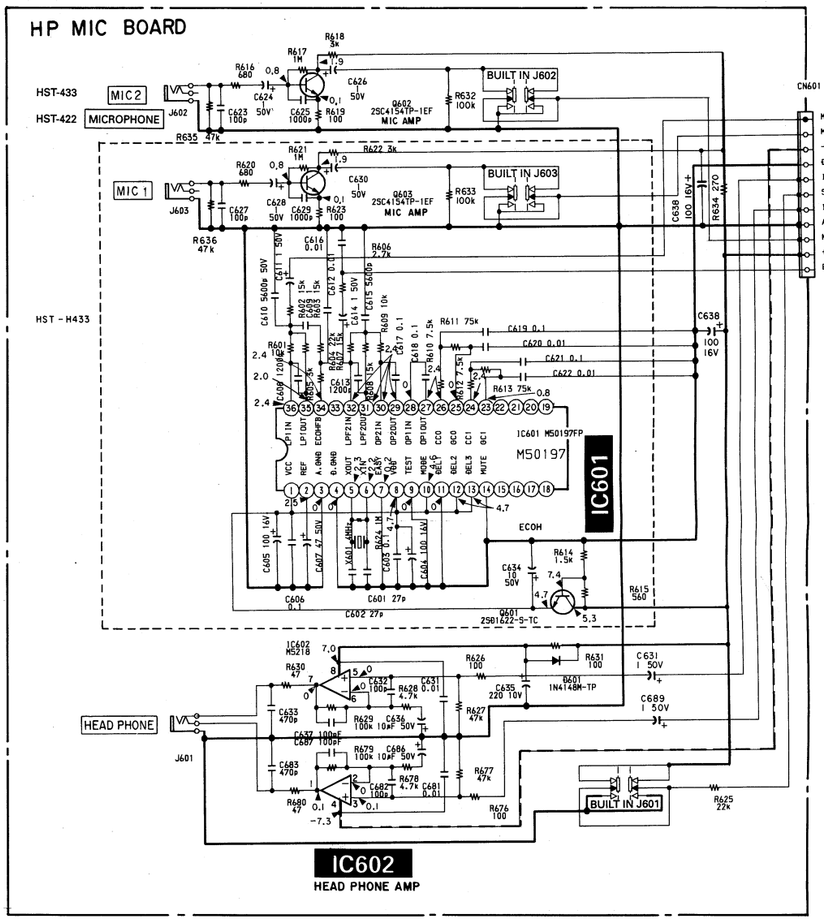
VOLUME BOARD IC801



TO POWER BOARD J

To page 31

HP MIC BOARD



IC602
HEAD PHONE AMP

E To page 32–34

FL501 FLURESCENT DISPLAY TUBE

REMOTE CONTROL RECEIVER

IC502 GP1U52XB

IC503

IC503 TC89102F

TC89101

IC505
GRAPHIC EQ AMP

IC505 M5226FP

M5226FP

HST-H422

S511 MULTIPLEX

HST-H433

CN505

IN.L
IN.R
G.GND
OUT.L
SP.MUTE
OUT.R
A.GND
+V
VOL.UP
VOL.DOWN
FC.MUTE

BALANCE

RV505 100k

RV510 100Hz | RV509 400Hz | RV508 1KHz
RV507 4KHz | RV506 12KHz | RV504 DBFB

TMP47C870N

IC501 TMP47C870N

D503 TAPE
D504 CD
D501 TUNER
D502 VIDEO

D505 SEL2210S-TM10

IC555
GRAPHIC EQ AMP

IC555 M5226FP

M5226FP

HST-H422

RV560 100Hz | RV559 400Hz | RV558 1KHz
RV557 4KHz | RV556 12KHz

IC504 MIC AMP

IC504 M5218

HST-H433

DIGITAL ECHO

MIC 2

MIC 1

HST-H422

S501 CLOCK | S502 TIMER SET | S503 TIMER CONTROL
S504 FUNCTION | S505 - | S506 BAND | S507 MEMORY / NEXT
S508 POWER | S509 + | S510 PRESET / TUNING

Q502 2SC4154TP-1EF RESET

Q504 2SC3359-TA MUTE

D505 PRESET

CN501 | CN502 | CN503 | CN504

-24V, VF, VF

+5.6V, SIRCS, TC PLAY, CE (PLL), SI, SO, CLK, TUNER, STEREO, ST MUTE, B.DOWN

L IN, A.GND, R IN, +7.5V, MIC, -7.5V, RELAY, D.GND, FUNC.B, FUNC.A

MIC.IN, MIC.1, -V, G.GND, IN.L, SP.MUTE, IN.R, A.GND, MIC.2, +V, ECOH

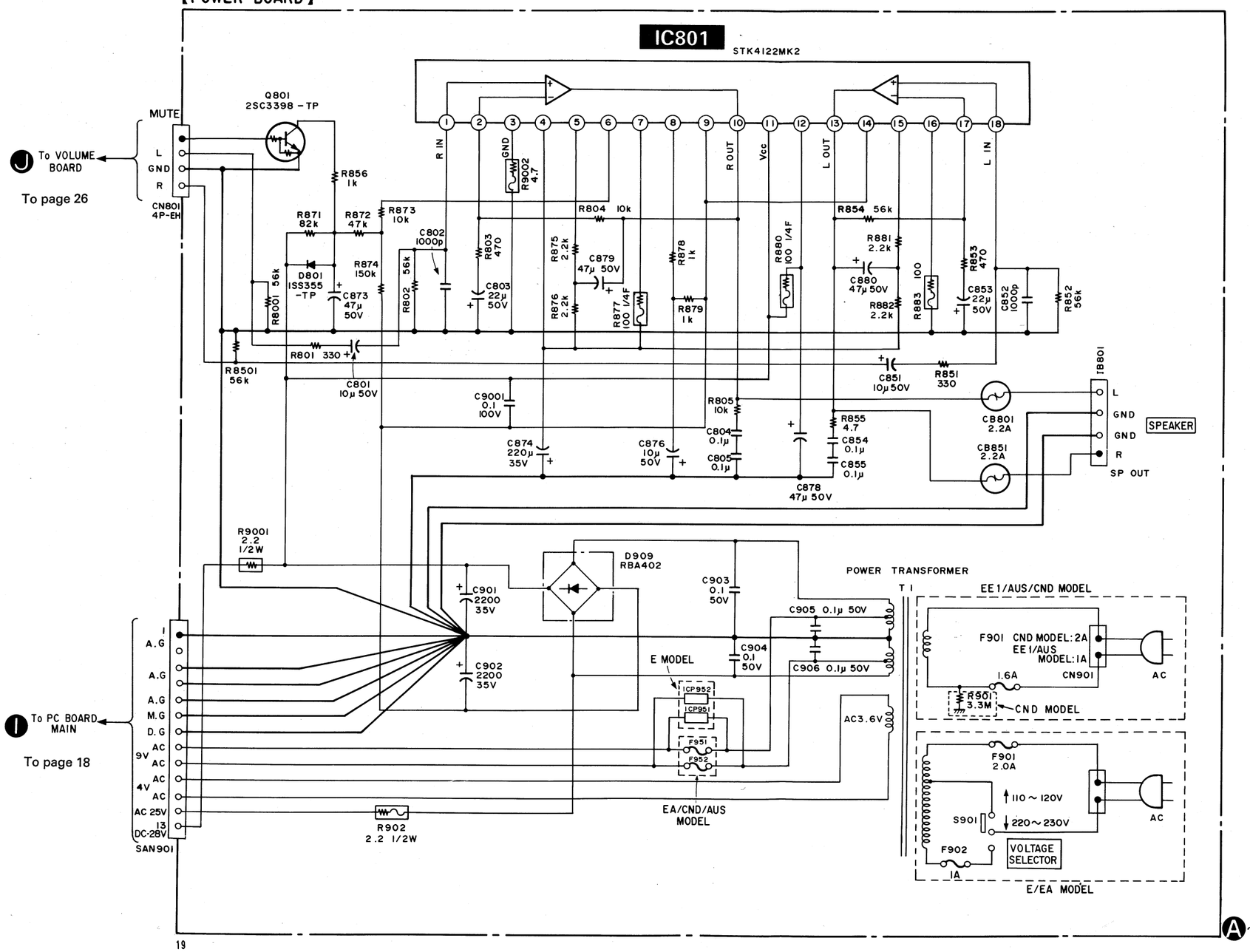
TO MAIN BOARD G

TO MAIN BOARD H

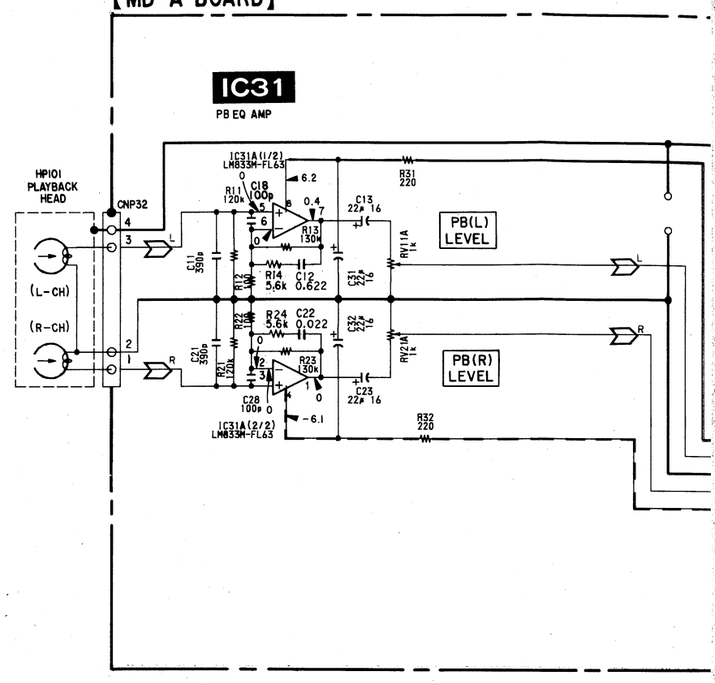
To page 18

To page 18

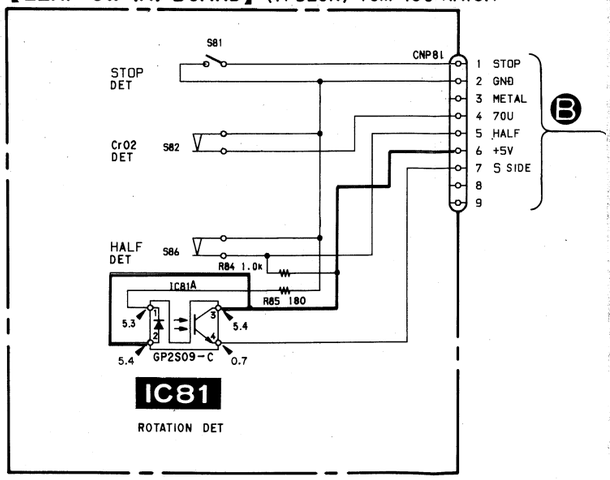
【POWER BOARD】



【MD-A BOARD】

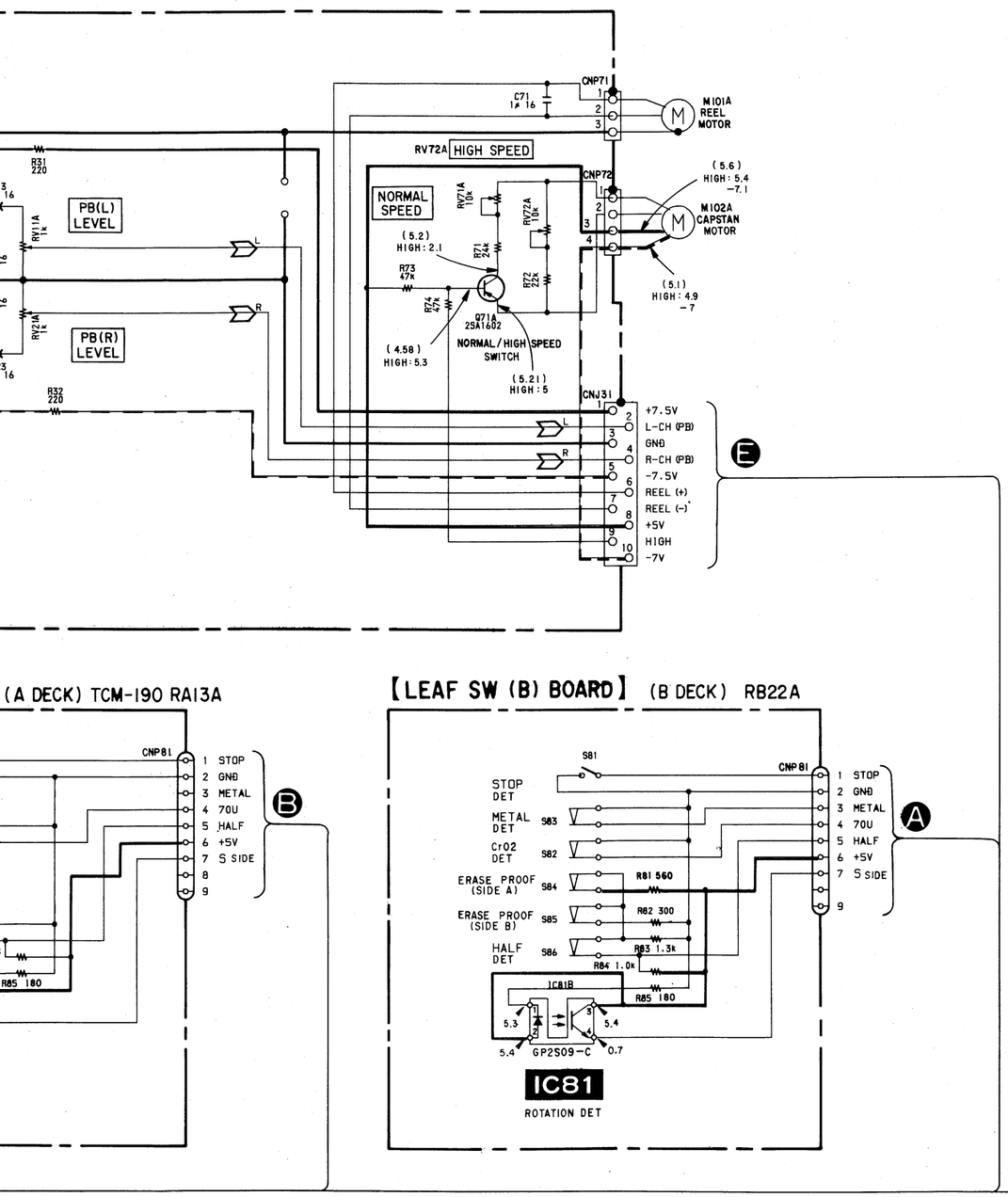


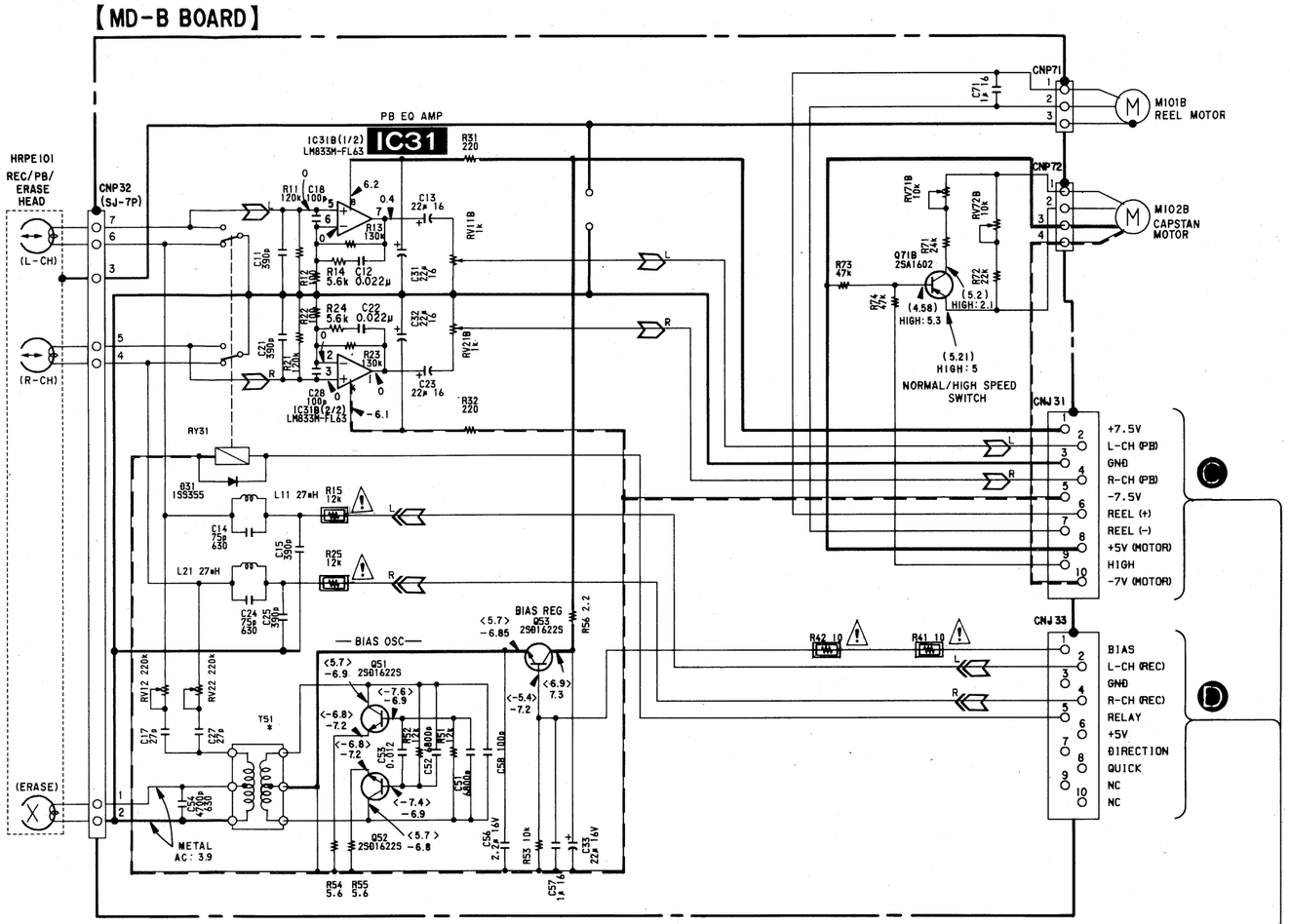
【LEAF SW (A) BOARD】 (A DECK) TCM-190 RA13A



A ~ E To TC MAIN BOARD

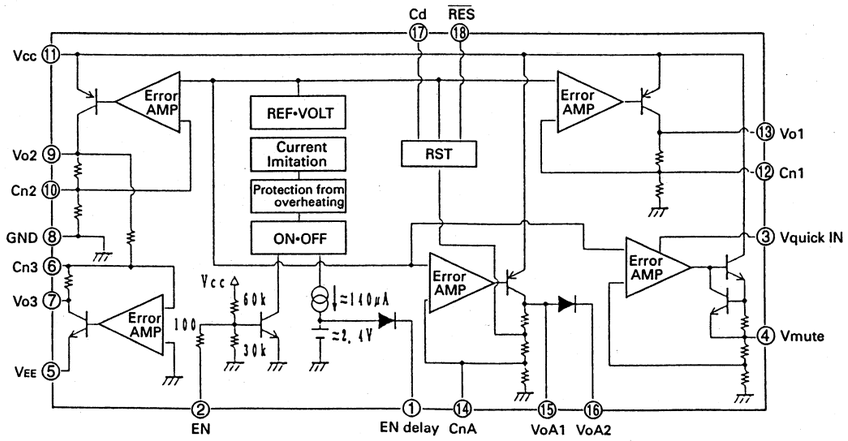
To page 25


PB(L) LEVEL
PB(R) LEVEL
R31 220
RV11A 1k
RV21A 1k
R32 220
RV72A HIGH SPEED
NORMAL SPEED
RV71A 10k
RV72A 10k
R71 24k
R72 22k
R73 47k
R74 47k
Q71A 2SA1602
(5.2) HIGH: 2.1
(4.58) HIGH: 5.3
(5.21) HIGH: 5
NORMAL/HIGH SPEED SWITCH
C71 1µ 16
CNP71
M101A REEL MOTOR
CNP72
M102A CAPSTAN MOTOR
(5.6) HIGH: 5.4 -7.1
(5.1) HIGH: 4.9 -7
CNJ31
+7.5V
L-CH (PB)
GND
R-CH (PB)
-7.5V
REEL (+)
REEL (-)
+5V
HIGH
-7V
E
(A DECK) TCM-190 RA13A
CNP81
1 STOP
2 GND
3 METAL
4 70U
5 HALF
6 +5V
7 S SIDE
8
9
B
R85 180
【LEAF SW (B) BOARD】 (B DECK) RB22A
S81
STOP DET
METAL DET S83
CrO2 DET S82
ERASE PROOF (SIDE A) S84
ERASE PROOF (SIDE B) S85
HALF DET S86
R81 560
R82 300
R83 1.3k
R84 1.0k
R85 180
IC81B
5.3
5.4
5.4
0.7
GP2S09-C
IC81
ROTATION DET
A

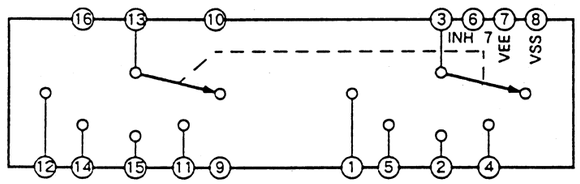

【MD-B BOARD】
HRPE101
REC/PB/ ERASE HEAD
(L-CH)
(R-CH)
(ERASE)
CNP32 (SJ-7P)
PB EQ AMP
IC31B(1/2) LM833M-FL63
IC31
IC31B(2/2) LM833M-FL63
R31 220
R32 220
R11 120k
R12 120k
R13 130k
R14 5.6k
R24 5.6k
R23 130k
C18 100p
C12 0.022µ
C22 0.022µ
C13 22µ 16
C23 22µ 16
C11 390p
C21 390p
C28 100p
RV11B 1k
RV21B 1k
RY31
D31 1SS355
L11 27mH
L21 27mH
R15 12k
R25 12k
C14 75p 630
C24 75p 630
C15 390p
C25 390p
RV12 220k
RV22 220k
C17 27p
C27 27p
T51
C54 4700p 630
C55 4700p 630
C51 4700p
C52 4700p
C53 0.012
R52 12k
R53 10k
C58 100p
C56 2.2µ 16V
C57 1µ 16
C33 22µ 16V
R54 5.6
R55 5.6
R56 2.2
BIAS REG
Q53 2SB1622S
Q51 2SD1622S
Q52 2SB1622S
BIAS OSC
METAL AC: 3.9
CNP71
M101B REEL MOTOR
CNP72
M102B CAPSTAN MOTOR
Q71B 2SA1602
(4.58) HIGH: 5.3
(5.2) HIGH: 2.1
(5.21) HIGH: 5
NORMAL/HIGH SPEED SWITCH
R42 10
R41 10
CNJ31
+7.5V
L-CH (PB)
GND
R-CH (PB)
-7.5V
REEL (+)
REEL (-)
+5V (MOTOR)
HIGH
-7V (MOTOR)
C
CNJ33
BIAS
L-CH (REC)
GND
R-CH (REC)
RELAY
+5V
DIRECTION
QUICK
NC
NC
D

5-10. IC BLOCK DIAGRAMS

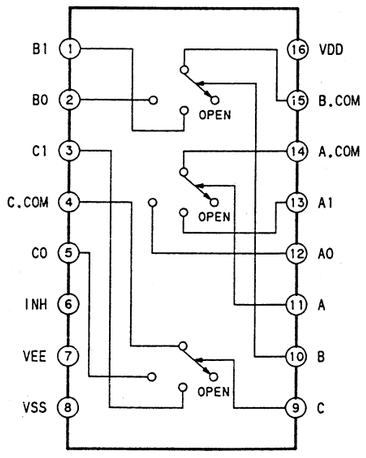
IC101 LA5603



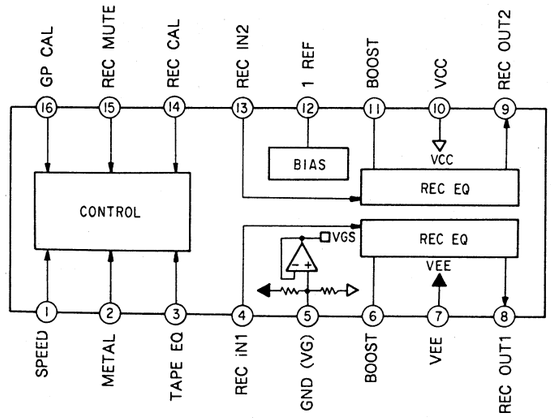
IC102 MC14052BCP



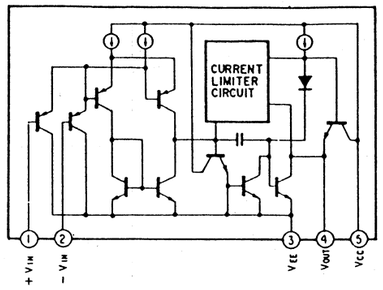
IC201 MC14053BF



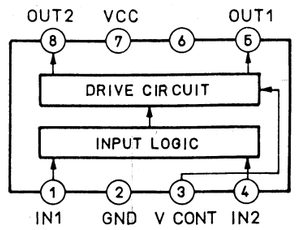
IC205 CXA1398M



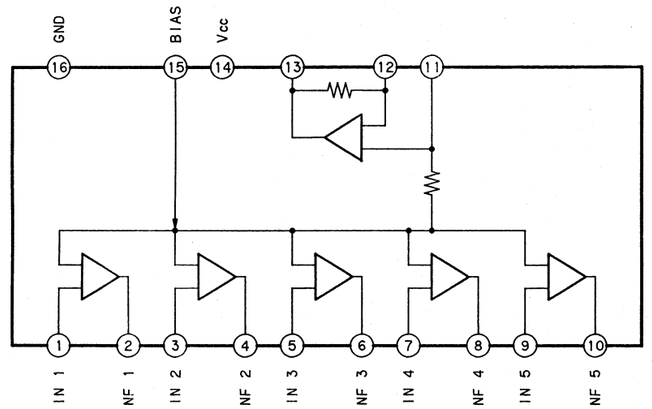
IC402 LA6500



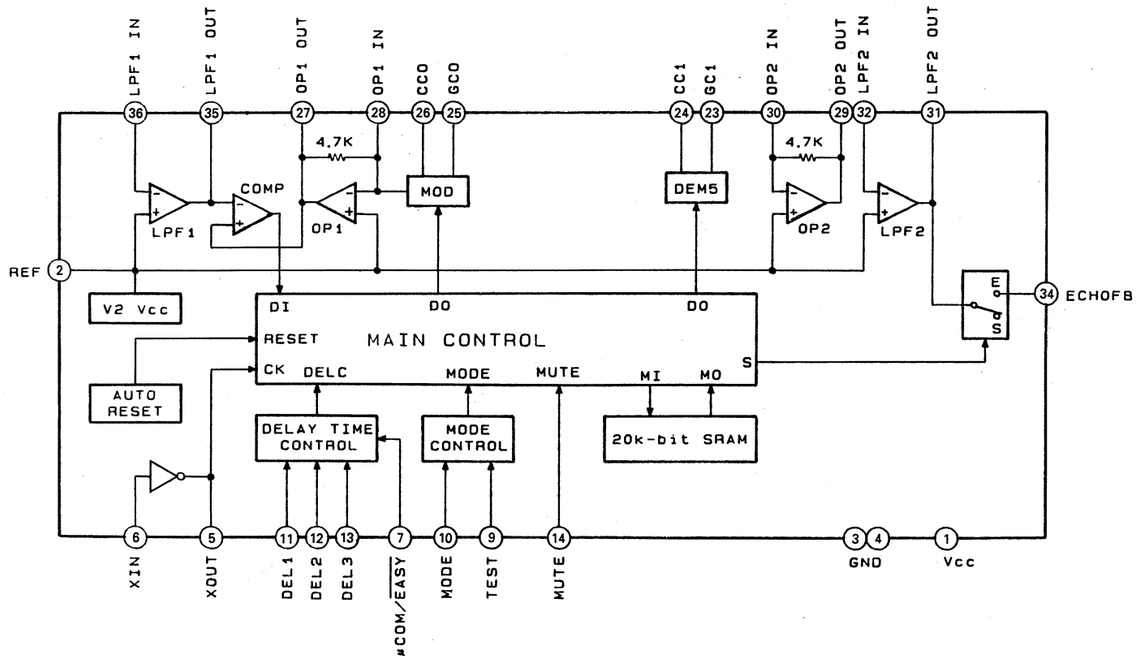
IC801 LB1639



IC505, 555 M5226FP



IC601 M50197FP



SECTION 6
EXPLODED VIEW

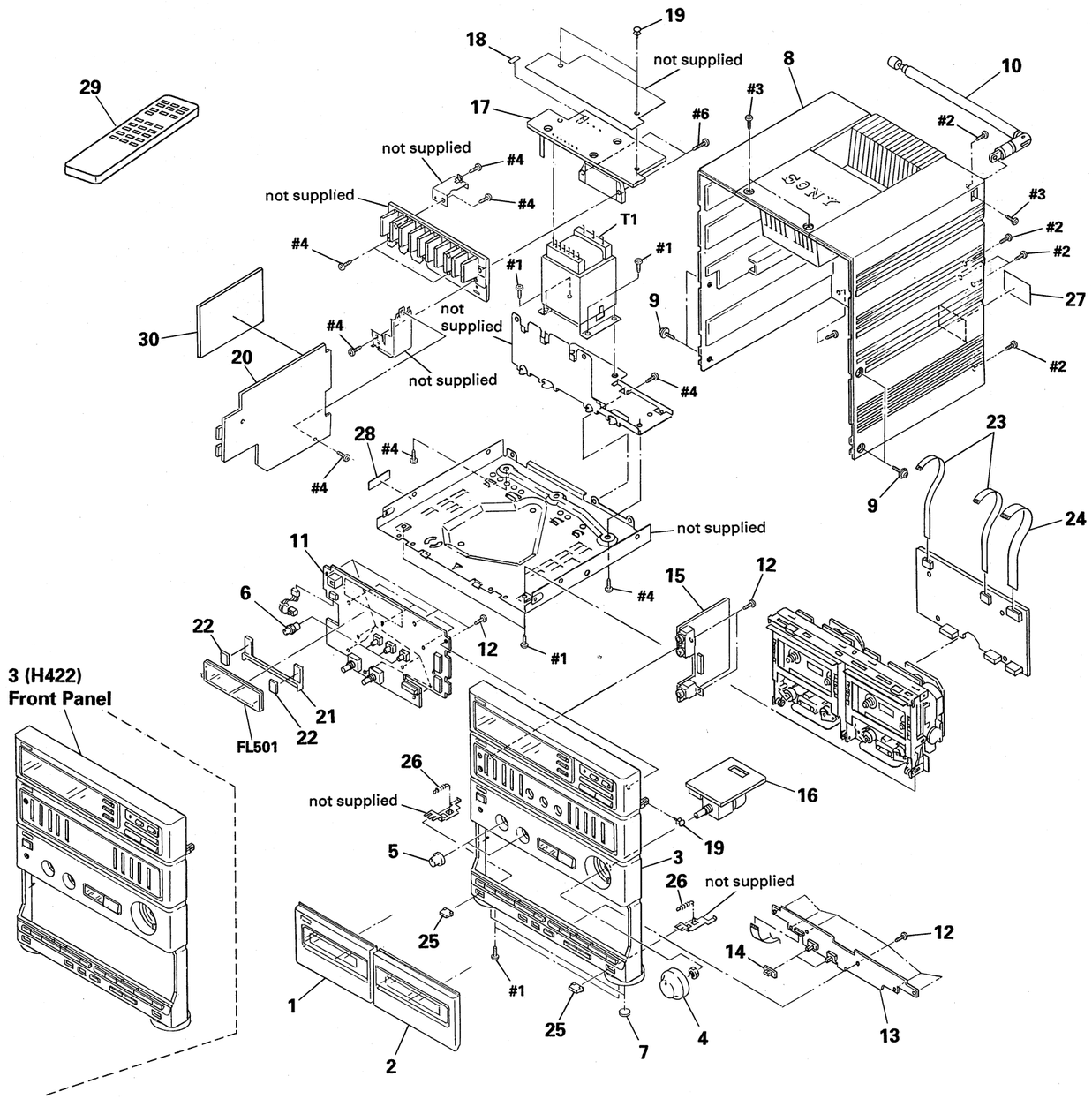
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB,BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware(# mark) list is given in the last of this parts list.

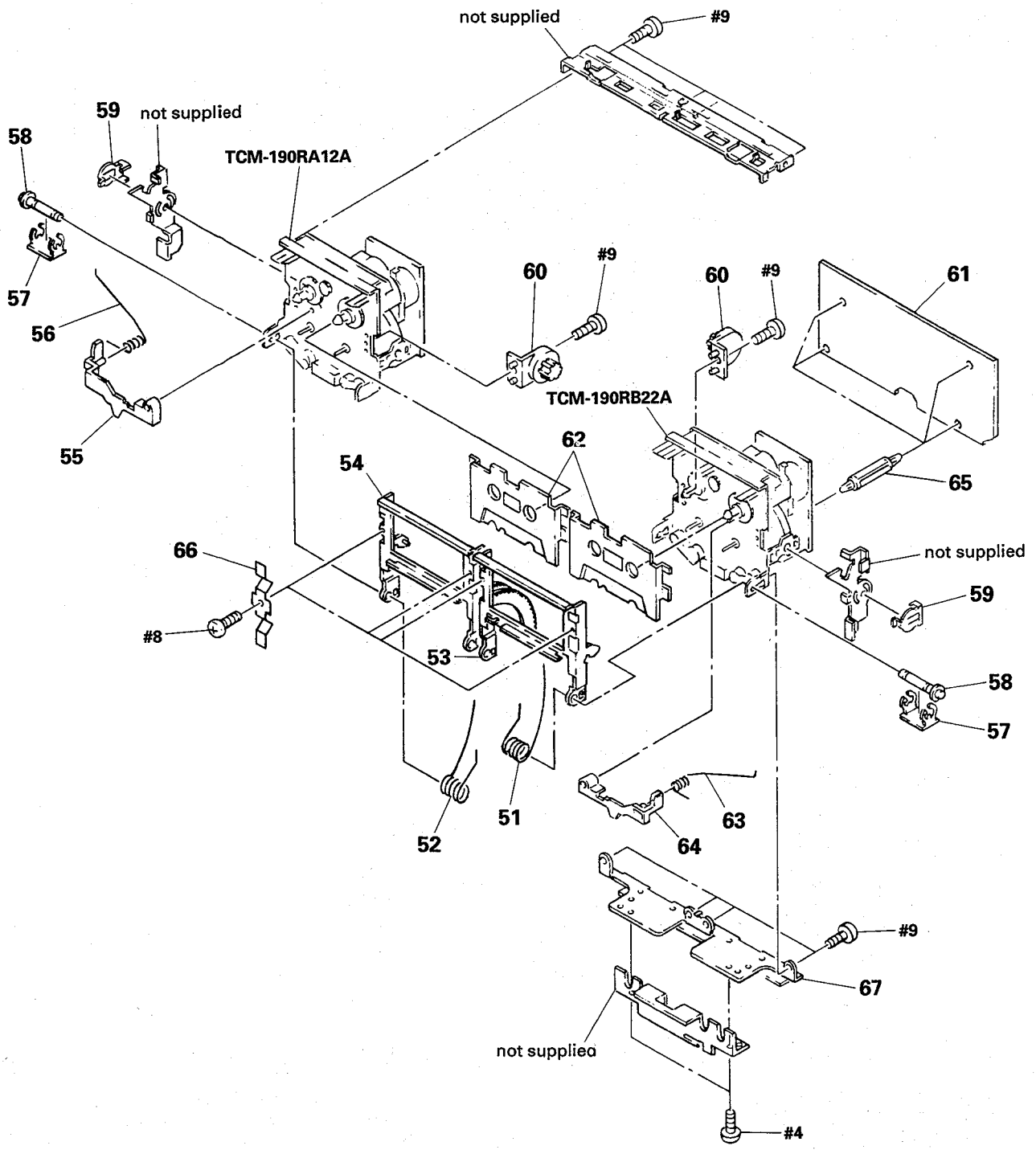
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. FRONT PANEL SECTION


3 (H422)
Front Panel
not supplied
not supplied
not supplied

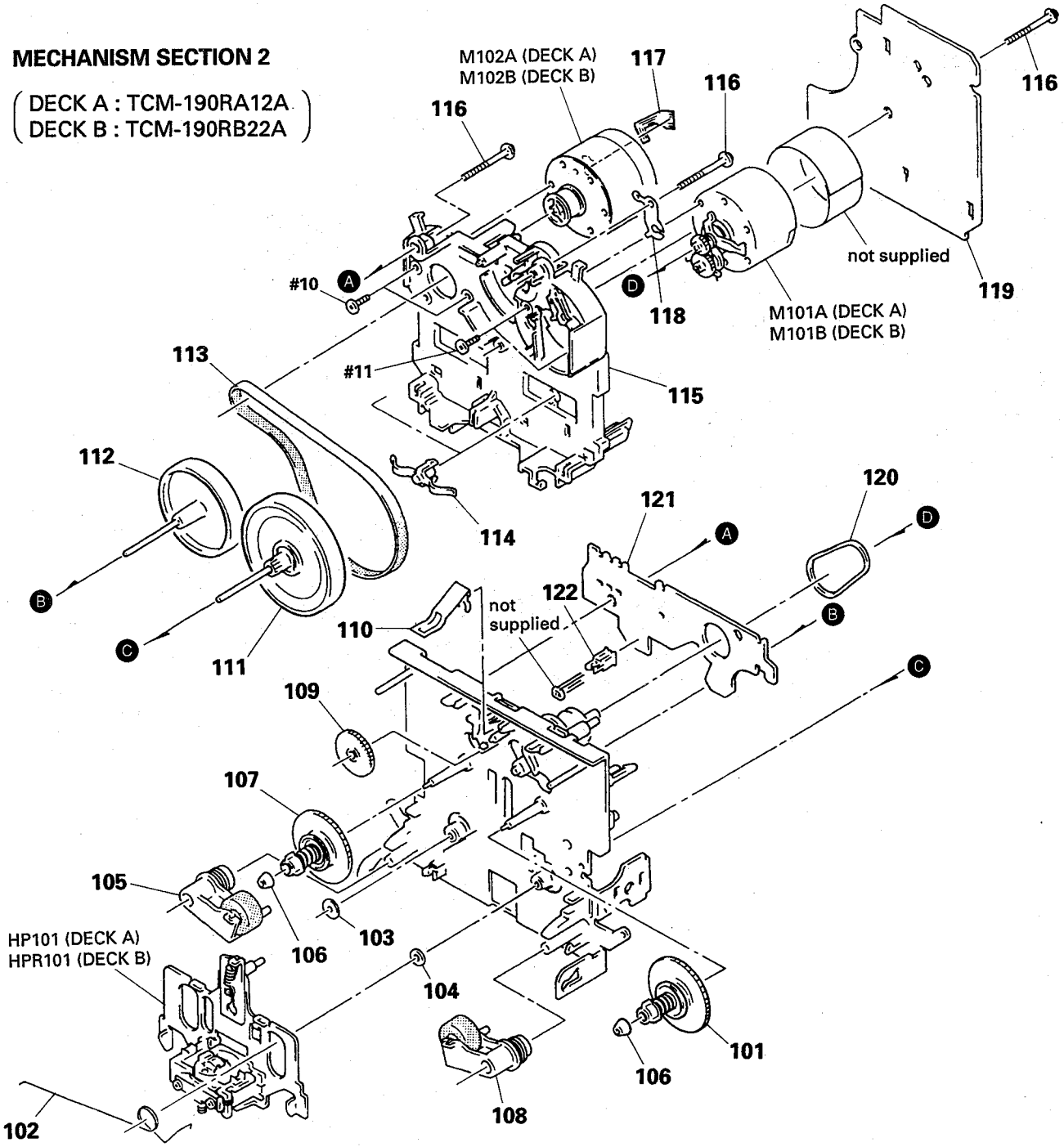
6-2. MECHANISM SECTION 1



Ref. No.	Part No.	Description	Remarks
51	3-354-960-01	SPRING (LOADING R), TORSION	
52	3-354-959-01	SPRING (LOADING L), TORSION	
53	X-3362-856-1	HOLDER (R) ASSY, CASSETTE	
54	X-3362-857-1	HOLDER (L) ASSY, CASSETTE	
55	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
56	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
57	3-367-720-01	RING (W), RETAINING	
58	3-367-721-01	SHAFT (FULCRUM SHAFT)	
59	3-354-957-01	JOINT (LOCK LEVER)	
60	3-354-963-01	DAMPER	
61	* A-4341-829-A	TC MAIN BOARD, COMPLETE	
62	3-367-711-01	RETAINER, CASSETTE	
63	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
64	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
65	* 3-682-419-21	HOLDER, P.C.B	
66	3-340-137-01	SPRING, CASSETTE RETAINER	
67	* 3-367-724-01	JOINT (LOWER)	

6-3. MECHANISM SECTION 2

(DECK A : TCM-190RA12A
DECK B : TCM-190RB22A)

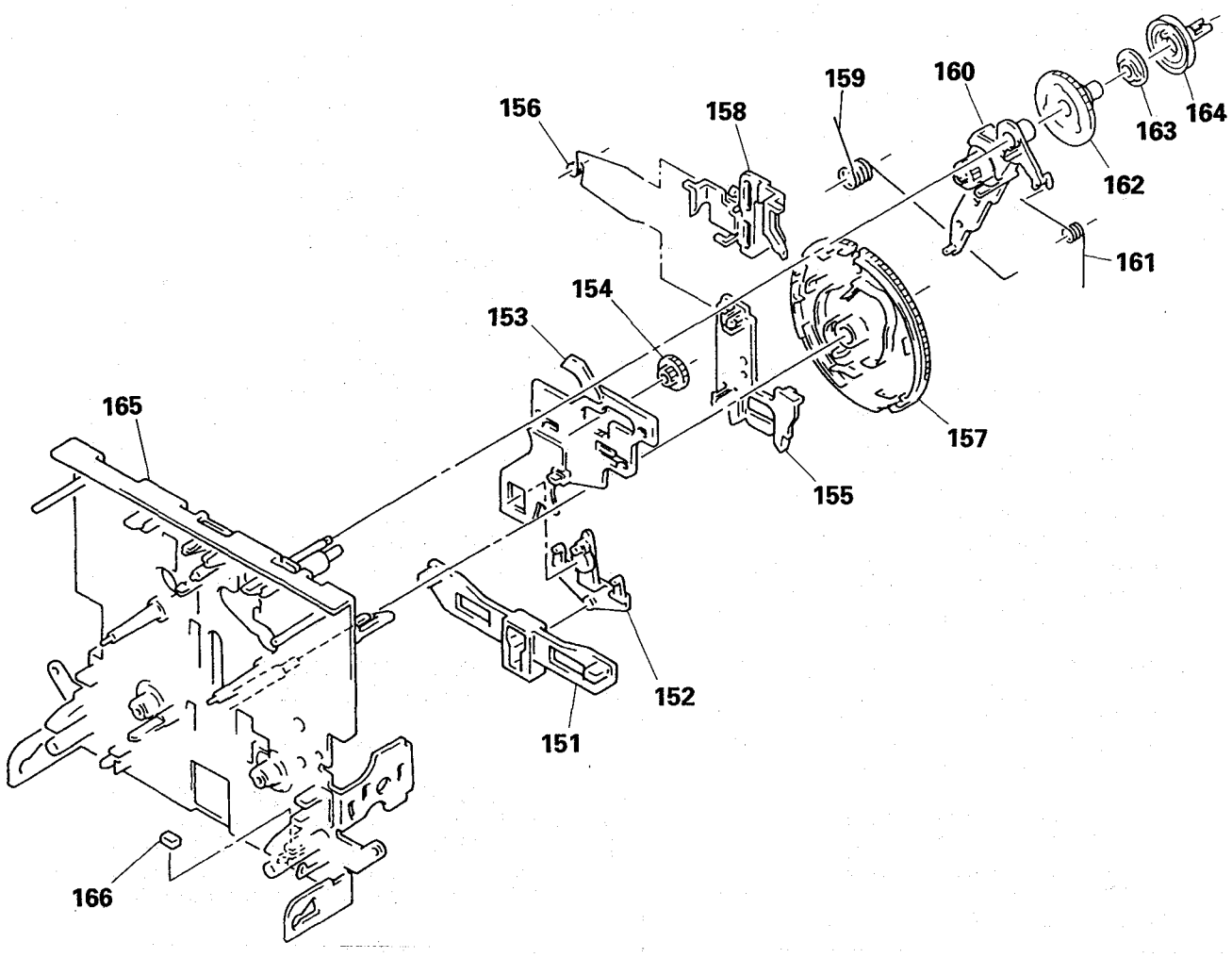


Ref. No.	Part No.	Description	Remarks
101	X-3359-404-1	TABLE ASSY, REEL	
102	3-359-455-01	SPRING, TORSION	
103	3-356-714-01	WASHER	
104	3-356-713-01	WASHER	
105	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
106	3-362-308-01	CAP (REEL)	
107	X-3362-078-1	TABLE ASSY (B), REEL	
108	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
109	3-359-424-01	GEAR (REV GEAR)	
110	3-359-430-01	SPRING(CASSETTE RETAINER), LEAF	
111	X-3359-406-1	FLYWHEEL (FWD) COMPLETE ASSY	
112	X-3359-410-1	FLYWHEEL (REV) ASSY	
113	3-359-417-01	BELT (FLAT), CAPSTAN	
114	3-575-321-00	RETAINER, THRUST, CAPSTAN	
115	* 3-359-436-01	BASE (THRUST RETAINER), FITTING	

Ref. No.	Part No.	Description	Remarks
116	3-359-414-01	SCREW (+PTPWH 2X23)	
117	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
118	3-359-450-01	PLATE, GROUND	
119	* A-2006-399-A	MD-A BOARD (RA12A), COMPLETE (DECK A)	
	* A-2006-400-A	MD-B BOARD (RB22A), COMPLETE (DECK B)	
120	3-359-466-01	BELT (FR), SQUARE	
121	* 1-634-841-11	SW (A) BOARD, LEAF SW (DECK A)	
	* 1-634-841-11	SW (B) BOARD, LEAF SW (DECK B)	
122	3-343-419-01	HOLDER (S SENSER A)	
HP101	A-2003-837-A	BASE ASSY, HEAD (DECK A)	
HRP101	A-2003-838-A	BASE ASSY, HEAD (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	

6-4. MECHANISM SECTION 3

(DECK A : TCM-190RA12A
DECK B : TCM-190RB22A)



Ref. No.	Part No.	Description	Remarks
151	* 3-359-425-01	SLIDER (REVERSE SLIDER)	
152	3-359-426-01	LEVER (REVERSE LEVER)	
153	* 3-359-415-01	SLIDER (TRIGGER SLIDER)	
154	3-359-448-01	GEAR (TRIGGER)	
155	* 3-359-427-01	SLIDER (LEVERSE SLIDER)	
156	3-359-454-01	SPRING, TORSION	
157	3-359-420-01	GEAR (CAM GEAR)	
158	3-359-429-01	SLIDER (BRAKE PLATE)	
159	3-359-456-01	SPRING(TRIGGER SPRING), TORSION	
160	X-3359-405-1	LEVER (FR ARM) ASSY	
161	3-359-453-01	SPRING (FR ARM), TORSION	
162	3-359-419-01	GEAR (FR GEAR)	
163	3-359-421-01	CLUTCH (REEL DISK)	
164	3-359-418-01	PULLEY (FR PULLEY)	
165	X-3359-415-1	BASE ASSY, MECHANICAL	
166	3-359-469-01	SPACER	

SECTION 7
ELECTRICAL PARTS LIST

TUNER

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example :
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- CND : Canadian
  AUS : Australian
  EA : Saudi Arabia
  EE : East European

Ref. No.	Part No.	Description			Remarks
*	A-4303-377-A	TUNER BOARD (TCB011), COMPLETE (H422:EE)			
		**********			
		〈 CAPACITOR 〉			
C1	1-124-120-11	ELECT	220uF	20%	25V
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C5	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C6	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C8	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-012-00	CERAMIC CHIP	0.0018uF		50V
C10	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C21	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C22	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C23	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C24	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C25	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C27	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C29	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C31	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C32	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C33	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C34	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C35	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C36	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C51	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C52	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C53	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C54	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C57	1-164-346-11	CERAMIC CHIP	1.0uF		16V
C58	1-164-346-11	CERAMIC CHIP	1.0uF		16V
C59	1-164-346-11	CERAMIC CHIP	1.0uF		16V
C60	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C61	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C62	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C63	1-164-346-11	CERAMIC CHIP	1.0uF		16V
C64	1-164-346-11	CERAMIC CHIP	1.0uF		16V
C65	1-164-346-11	CERAMIC CHIP	1.0uF		16V
C66	1-164-346-11	CERAMIC CHIP	1.0uF		16V
C69	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C70	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C71	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C72	1-124-120-11	ELECT	220uF	20%	25V
C73	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C74	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C75	1-126-157-11	ELECT	10uF	20%	16V
C76	1-126-101-11	ELECT	100uF	20%	16V
C79	1-126-157-11	ELECT	10uF	20%	16V
C80	1-124-472-11	ELECT	470uF	20%	10V
C81	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C82	1-164-232-11	CERAMIC CHIP	0.01uF		50V
		〈 FILTER 〉			
CF1	1-567-389-11	FILTER, CERAMIC			
CF51	1-567-389-11	FILTER, CERAMIC			
		〈 CONNECTOR 〉			
CN1	1-573-105-11	CONNECTOR, PC BOARD(RECEPTACLE)			
CN2	1-573-105-11	CONNECTOR, PC BOARD(RECEPTACLE)			
CN3	1-573-105-11	CONNECTOR, PC BOARD(RECEPTACLE)			
CN4	1-573-105-11	CONNECTOR, PC BOARD(RECEPTACLE)			
CN5	1-573-105-11	CONNECTOR, PC BOARD(RECEPTACLE)			
		〈 DIODE 〉			
D21	8-719-977-03	DIODE DTZ5.6B			
D51	8-719-988-62	DIODE 1SS355			
		〈 FRONT END 〉			
FE1	1-465-673-11	FRONT END (2 BAND)			
FE2	1-239-030-11	ENCAPSULATED COMPONENT (MW)			
FE3	1-239-049-11	ENCAPSULATED COMPONENT (LW)			
		〈 IC 〉			
IC21	8-759-821-43	IC LC7218M			
IC51	8-759-823-68	IC LA1851NM			
		〈 TRANSFORMER 〉			
IFT51	1-404-954-11	TRANSFORMER, DISCRIMINATOR			

TUNER

Ref. No.	Part No.	Description				Remarks
IFT52	1-404-713-11	TRANSFORMER, IF				
		〈 CHIP JUMPER 〉				
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW5	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW7	1-216-295-00	METAL CHIP	0	5%	1/10W	
		〈 COIL 〉				
L1	1-408-793-21	INDUCTOR, CHIP 220uH				
L51	1-408-798-00	CHIP INDUCTOR 1mH				
		〈 LPF 〉				
LPF51	1-235-221-00	FILTER, LOW PASS				
		〈 TRANSISTOR 〉				
Q1	8-729-804-72	TRANSISTOR	2SC2814-F4			
Q3	8-729-810-16	TRANSISTOR	2SA1678			
Q4	8-729-602-36	TRANSISTOR	2SA1602			
Q5	8-729-810-28	TRANSISTOR	2SC4398			
Q6	8-729-602-36	TRANSISTOR	2SA1602			
Q7	8-729-810-28	TRANSISTOR	2SC4398			
Q21	8-729-602-21	TRANSISTOR	2SC4154-F			
Q22	8-729-232-71	TRANSISTOR	2SK208GR3			
Q23	8-729-232-59	TRANSISTOR	2SC4666B			
Q24	8-729-232-71	TRANSISTOR	2SK208GR3			
Q25	8-729-232-59	TRANSISTOR	2SC4666B			
Q51	8-729-602-21	TRANSISTOR	2SC4154-F			
Q52	8-729-602-21	TRANSISTOR	2SC4154-F			
Q53	8-729-810-28	TRANSISTOR	2SC4398			
		〈 RESISTOR 〉				
R1	1-216-037-00	METAL CHIP	330	5%	1/10W	
R2	1-216-037-00	METAL CHIP	330	5%	1/10W	
R3	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R4	1-216-037-00	METAL CHIP	330	5%	1/10W	
R7	1-216-025-00	METAL CHIP	100	5%	1/10W	
R8	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R9	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R10	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R11	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R12	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R13	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R15	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R16	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R21	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R22	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R23	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R24	1-216-025-00	METAL CHIP	100	5%	1/10W	
R25	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	

Ref. No.	Part No.	Description				Remarks
R26	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R27	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R28	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R29	1-216-025-00	METAL CHIP	100	5%	1/10W	
R30	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R31	1-216-043-00	METAL CHIP	560	5%	1/10W	
R32	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R33	1-216-035-00	METAL CHIP	270	5%	1/10W	
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R35	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R36	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R37	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R38	1-216-025-00	METAL CHIP	100	5%	1/10W	
R39	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R40	1-216-043-00	METAL CHIP	560	5%	1/10W	
R41	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R42	1-216-035-00	METAL CHIP	270	5%	1/10W	
R43	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R44	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R45	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R46	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R51	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R52	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R53	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R54	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R55	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R57	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R58	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	
R59	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R60	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R61	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R62	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R63	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R64	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R66	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R67	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R68	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R69	1-216-025-00	METAL CHIP	100	5%	1/10W	
R70	1-216-025-00	METAL CHIP	100	5%	1/10W	
R71	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R72	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R73	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R74	1-216-013-00	METAL CHIP	33	5%	1/10W	
R75	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R79	1-216-049-00	METAL CHIP	1K	5%	1/10W	
		〈 VARIABLE RESISTOR 〉				
RV51	1-238-601-11	RES, ADJ, CARBON 22K				
RV52	1-238-601-11	RES, ADJ, CARBON 22K				

When indicating parts by reference number, please include the board name.

TUNER

Ref. No.	Part No.	Description			Remarks
		⟨ CONNECTOR ⟩			
TP51	* 1-564-336-00	PIN, CONNECTOR 2P			
		⟨ CRYSTAL ⟩			
X21	1-577-126-11	VIBRATOR, CRYSTAL			
X51	1-577-075-11	OSCILLATOR, CERAMIC 456kHz			
**********					
	* A-4303-342-A	TUNER BOARD(TCB011), COMPLETE (H422:CND)			
		**********			
		⟨ CAPACITOR ⟩			
C1	1-124-120-11	ELECT	220uF	20% 25V	
C2	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C3	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C5	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C21	1-163-103-00	CERAMIC CHIP	27PF	5% 50V	
C22	1-163-103-00	CERAMIC CHIP	27PF	5% 50V	
C23	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C24	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C25	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C26	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C27	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C29	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C31	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C32	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C33	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C51	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C52	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C53	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C54	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C55	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	
C57	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C58	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C59	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C60	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C61	1-163-032-00	CERAMIC CHIP	0.015uF	50V	
C62	1-163-032-00	CERAMIC CHIP	0.015uF	50V	
C63	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C64	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C65	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C66	1-164-346-11	CERAMIC CHIP	1.0uF	16V	
C69	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C70	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C71	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C72	1-124-120-11	ELECT	220uF	20% 25V	
C73	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C74	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C75	1-126-157-11	ELECT	10uF	20% 16V	
C76	1-126-101-11	ELECT	100uF	20% 16V	
C79	1-126-157-11	ELECT	10uF	20% 16V	
C80	1-124-472-11	ELECT	470uF	20% 10V	
C81	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C82	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
		⟨ FILTER ⟩			
CF1	1-527-968-11	FILTER, CERAMIC			
CF51	1-567-389-11	FILTER, CERAMIC			
		⟨ CONNECTOR ⟩			
CN1	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN2	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN3	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN4	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN5	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
		⟨ DIODE ⟩			
D21	8-719-977-03	DIODE DTZ5.6B			
D51	8-719-988-62	DIODE 1SS355			
		⟨ FRONT END ⟩			
FE1	1-465-673-11	FRONT END (2 BAND)			
FE2	1-239-031-11	ENCAPSULATED COMPONENT (MW)			
		⟨ IC ⟩			
IC21	8-759-821-43	IC LC7218M			
IC51	8-759-823-68	IC LA1851NM			
		⟨ TRANSFORMER ⟩			
IFT51	1-404-954-11	TRANSFORMER, DISCRIMINATOR			
IFT52	1-404-713-11	TRANSFORMER, IF			
		⟨ CHIP JUMPER ⟩			
JW1	1-216-295-00	METAL CHIP	0	5% 1/10W	
JW2	1-216-295-00	METAL CHIP	0	5% 1/10W	
JW4	1-216-295-00	METAL CHIP	0	5% 1/10W	
JW5	1-216-295-00	METAL CHIP	0	5% 1/10W	
JW6	1-216-295-00	METAL CHIP	0	5% 1/10W	
		⟨ COIL ⟩			
L51	1-408-798-00	CHIP INDUCTOR 1mH			
		⟨ LPF ⟩			
LPF51	1-235-221-00	FILTER, LOW PASS			
		⟨ TRANSISTOR ⟩			
Q1	8-729-804-72	TRANSISTOR 2SC2814-F4			
Q3	8-729-810-16	TRANSISTOR 2SA1678			
Q21	8-729-602-21	TRANSISTOR 2SC4154-F			
Q22	8-729-232-71	TRANSISTOR 2SK208GR3			
Q23	8-729-232-59	TRANSISTOR 2SC4666B			
Q51	8-729-602-21	TRANSISTOR 2SC4154-F			

When indicating parts by reference number, please include the board name.

TUNER

Ref. No.	Part No.	Description				Remarks
Q52	8-729-602-21	TRANSISTOR	2SC4154-F			
Q53	8-729-810-28	TRANSISTOR	2SC4398			
		⟨ RESISTOR ⟩				
R1	1-216-037-00	METAL CHIP	330	5%	1/10W	
R2	1-216-037-00	METAL CHIP	330	5%	1/10W	
R3	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R4	1-216-037-00	METAL CHIP	330	5%	1/10W	
R7	1-216-025-00	METAL CHIP	100	5%	1/10W	
R9	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R10	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R21	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R22	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R23	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R24	1-216-025-00	METAL CHIP	100	5%	1/10W	
R25	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R26	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R28	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R29	1-216-025-00	METAL CHIP	100	5%	1/10W	
R30	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R31	1-216-043-00	METAL CHIP	560	5%	1/10W	
R32	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R33	1-216-035-00	METAL CHIP	270	5%	1/10W	
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R35	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R36	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R37	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R38	1-216-025-00	METAL CHIP	100	5%	1/10W	
R51	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R52	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R53	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R54	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R55	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R57	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R58	1-216-066-00	METAL CHIP	5.1K	5%	1/10W	
R59	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R60	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R61	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R62	1-216-115-00	METAL CHIP	560K	5%	1/10W	
R63	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R64	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R66	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R67	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R68	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R69	1-216-025-00	METAL CHIP	100	5%	1/10W	
R70	1-216-025-00	METAL CHIP	100	5%	1/10W	
R71	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R72	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R73	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R74	1-216-013-00	METAL CHIP	33	5%	1/10W	
R79	1-216-049-00	METAL CHIP	1K	5%	1/10W	

Ref. No.	Part No.	Description				Remarks
		⟨ VARIABLE RESISTOR ⟩				
RV51	1-238-601-11	RES, ADJ, CARBON 22K				
RV52	1-238-601-11	RES, ADJ, CARBON 22K				
		⟨ CONNECTOR ⟩				
TP51	* 1-564-336-00	PIN, CONNECTOR 2P				
		⟨ CRYSTAL ⟩				
X21	1-577-126-11	VIBRATOR, CRYSTAL				
X51	1-577-075-11	OSCILLATOR, CERAMIC 456kHz				
**********						
	* A-4303-345-A	TUNER BOARD (TCB011), COMPLETE (H433)				
		**********				
		⟨ CAPACITOR ⟩				
C1	1-124-120-11	ELECT	220uF	20%	25V	
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C3	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C5	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C12	1-164-343-91	CERAMIC CHIP	0.056uF	10%	25V	
C13	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C14	1-163-577-91	CERAMIC CHIP	5PF	0.25PF	50V	
C21	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C22	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C23	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C24	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C25	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C26	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C27	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C29	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C31	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C32	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C33	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C51	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C52	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C53	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C54	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C55	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C57	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C58	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C59	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C60	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C61	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V	
C62	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V	
C63	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C64	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C65	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C66	1-164-346-11	CERAMIC CHIP	1.0uF		16V	
C69	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C70	1-164-232-11	CERAMIC CHIP	0.01uF		50V	

When indicating parts by reference number, please include the board name.

TUNER

Ref. No.	Part No.	Description			Remarks
C71	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C72	1-124-120-11	ELECT	220uF	20% 25V	
C73	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C74	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C75	1-126-157-11	ELECT	10uF	20% 16V	
C76	1-126-101-11	ELECT	100uF	20% 16V	
C79	1-126-157-11	ELECT	10uF	20% 16V	
C80	1-124-472-11	ELECT	470uF	20% 10V	
C81	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C82	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
		〈 FILTER 〉			
CF1	1-527-968-11	FILTER, CERAMIC			
CF51	1-567-389-11	FILTER, CERAMIC			
		〈 CONNECTOR 〉			
CN1	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN2	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN3	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN4	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
CN5	1-573-105-11	CONNECTOR, PC BOARD (RECEPTACLE)			
		〈 TRIMER 〉			
CV1	1-141-265-31	TRIMER CAPACITOR			
CV2	1-141-265-31	TRIMER CAPACITOR			
		〈 DIODE 〉			
D1	8-719-975-10	DIODE KV1560NT			
D21	8-719-977-03	DIODE DTZ5.6B			
D51	8-719-988-62	DIODE 1SS355			
		〈 FRONT END 〉			
FE1	1-465-673-11	FRONT END (2 BAND)			
FE2	1-239-032-11	ENCAPSULATED COMPONENT (MW)			
		〈 IC 〉			
IC21	8-759-821-43	IC LC7218M			
IC51	8-759-823-68	IC LA1851NM			
		〈 TRANSFORMER 〉			
IFT51	1-404-954-11	TRANSFORMER, DISCRIMINATOR			
IFT52	1-404-713-11	TRANSFORMER, IF			
		〈 CHIP JUMPER 〉			
JW1	1-216-295-00	METAL CHIP	0	5% 1/10W	
JW2	1-216-295-00	METAL CHIP	0	5% 1/10W	
JW3	1-216-295-00	METAL CHIP	0	5% 1/10W	
		〈 COIL 〉			
L51	1-408-798-00	CHIP INDUCTOR 1mH			

Ref. No.	Part No.	Description			Remarks
		〈 LPF 〉			
LPF51	1-235-221-00	FILTER, LOW PASS			
		〈 TRANSISTOR 〉			
Q1	8-729-804-72	TRANSISTOR	2SC2814-F4		
Q3	8-729-810-16	TRANSISTOR	2SA1678		
Q4	8-729-602-36	TRANSISTOR	2SA1602		
Q5	8-729-602-36	TRANSISTOR	2SA1602		
Q6	8-729-810-28	TRANSISTOR	2SC4398		
Q21	8-729-602-21	TRANSISTOR	2SC4154-F		
Q22	8-729-232-71	TRANSISTOR	2SK208GR3		
Q23	8-729-232-59	TRANSISTOR	2SC4666B		
Q51	8-729-602-21	TRANSISTOR	2SC4154-F		
Q52	8-729-602-21	TRANSISTOR	2SC4154-F		
Q53	8-729-810-28	TRANSISTOR	2SC4398		
		〈 RESISTOR 〉			
R1	1-216-037-00	METAL CHIP	330	5% 1/10W	
R2	1-216-037-00	METAL CHIP	330	5% 1/10W	
R3	1-216-109-00	METAL CHIP	330K	5% 1/10W	
R4	1-216-037-00	METAL CHIP	330	5% 1/10W	
R7	1-216-025-00	METAL CHIP	100	5% 1/10W	
R8	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R9	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R10	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R16	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R17	1-216-121-00	METAL CHIP	1M	5% 1/10W	
R18	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R21	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R22	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R23	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R24	1-216-025-00	METAL CHIP	100	5% 1/10W	
R25	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R26	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R27	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R28	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R29	1-216-025-00	METAL CHIP	100	5% 1/10W	
R30	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R31	1-216-043-00	METAL CHIP	560	5% 1/10W	
R32	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R33	1-216-035-00	METAL CHIP	270	5% 1/10W	
R34	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R35	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R36	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R37	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R38	1-216-025-00	METAL CHIP	100	5% 1/10W	
R51	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R52	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R53	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R54	1-216-071-00	METAL CHIP	8.2K	5% 1/10W	
R55	1-216-075-00	METAL CHIP	12K	5% 1/10W	
R57	1-216-073-00	METAL CHIP	10K	5% 1/10W	

When indicating parts by reference number, please include the board name.

TUNER MAIN POWER

Ref. No.	Part No.	Description			Remarks
R58	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R59	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R60	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R61	1-216-115-00	METAL CHIP	560K	5%	1/10W
R62	1-216-115-00	METAL CHIP	560K	5%	1/10W
R63	1-216-049-00	METAL CHIP	1K	5%	1/10W
R64	1-216-049-00	METAL CHIP	1K	5%	1/10W
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W
R66	1-216-073-00	METAL CHIP	10K	5%	1/10W
R67	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R68	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R69	1-216-025-00	METAL CHIP	100	5%	1/10W
R70	1-216-025-00	METAL CHIP	100	5%	1/10W
R71	1-216-089-00	METAL CHIP	47K	5%	1/10W
R72	1-216-073-00	METAL CHIP	10K	5%	1/10W
R73	1-216-073-00	METAL CHIP	10K	5%	1/10W
R74	1-216-013-00	METAL CHIP	33	5%	1/10W
R79	1-216-049-00	METAL CHIP	1K	5%	1/10W
		〈 VARIABLE RESISTOR 〉			
RV51	1-238-601-11	RES, ADJ, CARBON 22K			
RV52	1-238-601-11	RES, ADJ, CARBON 22K			
		〈 COIL 〉			
T1	1-402-547-11	COIL (ANT FOR SW3)			
T2	1-406-415-11	COIL (OSC FOR SW3)			
		〈 CONNECTOR 〉			
TP51	* 1-564-336-00	PIN, CONNECTOR 2P			
		〈 CRYSTAL 〉			
X21	1-577-126-11	VIBRATOR, CRYSTAL			
X51	1-577-075-11	OSCILLATOR, CERAMIC 456kHz			

****

Ref. No.	Part No.	Description			Remarks
	* A-4341-822-A	MAIN BOARD, COMPLETE (H422:EE)			
		**********			
	* A-4341-828-A	MAIN BOARD, COMPLETE (H422:CND)			
		**********			
	* A-4341-832-A	MAIN BOARD, COMPLETE (H433)			
		**********			
	* A-4341-820-A	POWER BOARD, COMPLETE (H422:EE H433:AUS)			
		**********			
	* A-4341-826-A	POWER BOARD, COMPLETE (H422:CND)			
		**********			
	* A-4341-830-A	POWER BOARD, COMPLETE (H433:E)			
		**********			
	* A-4341-539-A	POWER BOARD, COMPLETE (H433:EA)			
		**********			
	* 3-309-144-21	HEAT SINK			
	* 4-925-530-01	PLATE, GROUND			
		〈 CAPACITOR 〉			
C100	1-101-006-00	CERAMIC	0.047uF		50V
C103	1-124-907-11	ELECT	10uF	20%	50V
C104	1-124-477-11	ELECT	47uF	20%	25V
C105	1-124-913-11	ELECT	470uF	20%	50V
C106	1-124-907-11	ELECT	10uF	20%	50V
C107	1-124-927-11	ELECT	4.7uF	20%	100V
C108	1-126-937-11	ELECT	4700uF	20%	16V
C109	1-126-937-11	ELECT	4700uF	20%	16V
C110	1-124-903-11	ELECT	1uF	20%	50V
C111	1-124-477-11	ELECT	47uF	20%	25V
C112	1-124-477-11	ELECT	47uF	20%	25V
C113	1-126-101-11	ELECT	100uF	20%	16V
C114	1-126-101-11	ELECT	100uF	20%	16V
C115	1-124-903-11	ELECT	1uF	20%	50V
C116	1-124-907-11	ELECT	10uF	20%	50V
C117	1-124-903-11	ELECT	1uF	20%	50V
C118	1-124-903-11	ELECT	1uF	20%	50V
C119	1-124-903-11	ELECT	1uF	20%	50V
C120	1-124-903-11	ELECT	1uF	20%	50V
C121	1-164-159-11	CERAMIC	0.1uF		50V
C122	1-164-159-11	CERAMIC	0.1uF		50V
C123	1-162-282-31	CERAMIC	100PF	10%	50V
C124	1-162-282-31	CERAMIC	100PF	10%	50V
C125	1-162-282-31	CERAMIC	100PF	10%	50V
C126	1-162-282-31	CERAMIC	100PF	10%	50V
C127	1-124-907-11	ELECT	10uF	20%	50V
C128	1-126-233-11	ELECT	22uF	20%	50V
C129	1-124-477-11	ELECT	47uF	20%	25V
C130	1-162-294-31	CERAMIC	0.001uF	10%	50V
C131	1-164-159-11	CERAMIC	0.1uF		50V
C132	1-124-903-11	ELECT	1uF	20%	50V
C133	1-124-907-11	ELECT	10uF	20%	50V
C134	1-161-379-00	CERAMIC	0.01uF	20%	25V
C135	1-161-379-00	CERAMIC	0.01uF	20%	25V
C173	1-162-282-31	CERAMIC	100PF	10%	50V
C174	1-162-282-31	CERAMIC	100PF	10%	50V

When indicating parts by reference number, please include the board name.

MAIN POWER

Ref. No.	Part No.	Description				Remarks
C175	1-162-282-31	CERAMIC	100PF	10%	50V	
C176	1-162-282-31	CERAMIC	100PF	10%	50V	
C801	1-124-907-11	ELECT	10uF	20%	50V	
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C803	1-126-233-11	ELECT	22uF	20%	50V	
C804	1-164-159-11	CERAMIC	0.1uF		50V	
C805	1-164-159-11	CERAMIC	0.1uF		50V	
C806	1-162-290-31	CERAMIC	470PF	10%	50V	(H433)
C851	1-124-907-11	ELECT	10uF	20%	50V	
C852	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C853	1-126-233-11	ELECT	22uF	20%	50V	
C854	1-164-159-11	CERAMIC	0.1uF		50V	
C855	1-164-159-11	CERAMIC	0.1uF		50V	
C856	1-162-290-31	CERAMIC	470PF	10%	50V	(H433)
C873	1-124-910-11	ELECT	47uF	20%	50V	
C874	1-124-484-11	ELECT	220uF	20%	35V	
C876	1-124-907-11	ELECT	10uF	20%	50V	
C878	1-124-910-11	ELECT	47uF	20%	50V	
C879	1-124-910-11	ELECT	47uF	20%	50V	
C880	1-124-910-11	ELECT	47uF	20%	50V	
C890	1-164-159-11	CERAMIC	0.1uF		50V	
C901	1-126-953-11	ELECT	2200uF	20%	35V	
C902	1-126-953-11	ELECT	2200uF	20%	35V	
C903	1-164-159-11	CERAMIC	0.1uF		50V	
C904	1-164-159-11	CERAMIC	0.1uF		50V	
C905	1-164-159-11	CERAMIC	0.1uF		50V	
C906	1-164-159-11	CERAMIC	0.1uF		50V	
C9001	1-101-005-00	CERAMIC	22000PF		50V	
		〈 BREAKER 〉				
CB801	1-532-564-00	BREAKER, CIRCUIT				
CB851	1-532-564-00	BREAKER, CIRCUIT				
		〈 CONNECTOR 〉				
CN101	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN102	* 1-573-048-11	PLUG, CONNECTOR 11P				
CN103	* 1-569-155-11	PLUG, CONNECTOR 10P				
CN104	* 1-564-714-11	PIN, CONNECTOR (SMALL TYPE)12P				
CN105	* 1-568-834-11	SOCKET, CONNECTOR 15P				
CN106	* 1-573-107-11	CONNECTOR, PC BOARD (PLUG)				
CN107	* 1-573-107-11	CONNECTOR, PC BOARD (PLUG)				
CN108	* 1-573-107-11	CONNECTOR, PC BOARD (PLUG)				
CN109	* 1-573-107-11	CONNECTOR, PC BOARD (PLUG)				
CN110	* 1-573-107-11	CONNECTOR, PC BOARD (PLUG)				
CN801	* 1-564-507-11	PLUG, CONNECTOR 4P				
		〈 AC INLET 〉				
CN901	1-526-930-11	INLET, AC (H422:CND H433:E)				
CN901	1-526-931-11	INLET, AC (H422:EE H433:AUS, EA)				
		〈 DIODE 〉				
D101	8-719-200-82	DIODE	11ES2			
D102	8-719-200-82	DIODE	11ES2			
D103	8-719-200-82	DIODE	11ES2			
D104	8-719-200-82	DIODE	11ES2			
D105	8-719-200-82	DIODE	11ES2			
D106	8-719-200-82	DIODE	11ES2			
D107	8-719-001-64	DIODE	UZL-12L2			
D108	8-719-200-82	DIODE	11ES2			
D109	8-719-934-13	DIODE	HZS24-1L			
D110	8-719-010-39	DIODE	UZ-5.1BSC			
D111	8-719-912-20	DIODE	1SS120			
D112	8-719-010-47	DIODE	UZ-6.2BSC			
D113	8-719-912-20	DIODE	1SS120			
D114	8-719-912-20	DIODE	1SS120			
D801	8-719-912-20	DIODE	1SS120			
D909	8-719-312-09	DIODE	RBA-402			
		〈 FUSE 〉				
F901	⚠ 1-532-078-00	FUSE, TIME-LAG (1A) (H422:EE H433)				
F901	⚠ 1-532-578-00	FUSE, GLASS TUBE (2A) (H422:CND)				
F902	⚠ 1-532-203-00	FUSE, TIME-LAG (2A) (H433:E, EA)				
F951	⚠ 1-532-783-21	FUSE, MICRO(SECONDARY) (H422:CND H433:EA)				
F952	⚠ 1-532-783-21	FUSE, MICRO(SECONDARY) (H422:CND H433:EA)				
		〈 FUSE HOLDER 〉				
FH901	* 1-533-213-31	HOLDER, FUSE				
FH902	* 1-533-213-31	HOLDER, FUSE				
FH903	* 1-533-213-31	HOLDER, FUSE (H433:E, EA)				
FH904	* 1-533-213-31	HOLDER, FUSE (H433:E, EA)				
		〈 IC 〉				
IC101	8-759-823-46	IC	LA5603			
IC102	8-759-000-48	IC	MC14052BCP			
IC801	8-749-920-19	IC	STK4122MK2			
		〈 IC LINK 〉				
ICP951	⚠ 1-532-846-21	LINK, IC (H422:EE H433)				
ICP952	⚠ 1-532-846-21	LINK, IC (H422:EE H433)				
		〈 JACK 〉				
J101	1-565-258-11	JACK, PIN 4P				
		〈 TRANSISTOR 〉				
Q101	8-729-209-15	TRANSISTOR	2SD2012			
Q102	8-729-111-67	TRANSISTOR	2SB1094-L			
Q103	8-729-900-80	TRANSISTOR	DTC114ES			
Q104	8-729-209-15	TRANSISTOR	2SD2012			
Q105	8-729-900-80	TRANSISTOR	DTC114ES			
Q801	8-729-900-80	TRANSISTOR	DTC114ES			
		〈 RESISTOR 〉				
R102	1-249-421-11	CARBON	2.2K	5%	1/4W	
R103	1-249-425-11	CARBON	4.7K	5%	1/4W	
R104	1-249-433-11	CARBON	22K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

MAIN **POWER** **SW-A** **MD-A**

Ref. No.	Part No.	Description				Remarks
R105	1-249-441-11	CARBON	100K	5%	1/4W	
R106	1-249-417-11	CARBON	1K	5%	1/4W	
R107	1-249-431-11	CARBON	15K	5%	1/4W	
R108	1-249-429-11	CARBON	10K	5%	1/4W	
R109	1-249-429-11	CARBON	10K	5%	1/4W	
R110	1-249-417-11	CARBON	1K	5%	1/4W	
R111	1-249-429-11	CARBON	10K	5%	1/4W	
R112	1-249-441-11	CARBON	100K	5%	1/4W	
R113	1-249-417-11	CARBON	1K	5%	1/4W	
R114	1-249-441-11	CARBON	100K	5%	1/4W	
R115	1-249-417-11	CARBON	1K	5%	1/4W	
R116	1-249-421-11	CARBON	2.2K	5%	1/4W	
R118	1-249-425-11	CARBON	4.7K	5%	1/4W	
R120	1-249-425-11	CARBON	4.7K	5%	1/4W	
R122	1-249-418-11	CARBON	1.2K	5%	1/4W	
R125	1-249-425-11	CARBON	4.7K	5%	1/4W	
R126	1-249-411-11	CARBON	330	5%	1/4W	
R127	1-249-429-11	CARBON	10K	5%	1/4W	
R128	1-249-441-11	CARBON	100K	5%	1/4W	
R129	1-249-421-11	CARBON	2.2K	5%	1/4W	
R130	1-249-433-11	CARBON	22K	5%	1/4W	
R131 ⚠	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R132	1-249-441-11	CARBON	100K	5%	1/4W	
R166	1-249-421-11	CARBON	2.2K	5%	1/4W	
R168	1-249-425-11	CARBON	4.7K	5%	1/4W	
R170	1-249-425-11	CARBON	4.7K	5%	1/4W	
R172	1-249-418-11	CARBON	1.2K	5%	1/4W	
R175	1-249-425-11	CARBON	4.7K	5%	1/4W	
R801	1-249-411-11	CARBON	330	5%	1/4W	
R802	1-249-438-11	CARBON	56K	5%	1/4W	
R803	1-247-826-00	CARBON	620	5%	1/4W	
R804	1-249-438-11	CARBON	56K	5%	1/4W	
R805	1-249-389-11	CARBON	4.7	5%	1/4W	
R851	1-249-411-11	CARBON	330	5%	1/4W	
R852	1-249-438-11	CARBON	56K	5%	1/4W	
R853	1-247-826-00	CARBON	620	5%	1/4W	
R854	1-249-438-11	CARBON	56K	5%	1/4W	
R855	1-249-389-11	CARBON	4.7	5%	1/4W	
R856	1-249-417-11	CARBON	1K	5%	1/4W	
R871	1-249-440-11	CARBON	82K	5%	1/4W	
R872	1-249-437-11	CARBON	47K	5%	1/4W	
R873	1-249-429-11	CARBON	10K	5%	1/4W	
R874	1-247-883-00	CARBON	150K	5%	1/4W	
R875	1-249-421-11	CARBON	2.2K	5%	1/4W	
R876	1-249-421-11	CARBON	2.2K	5%	1/4W	
R877 ⚠	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R878	1-249-417-11	CARBON	1K	5%	1/4W	
R879	1-249-417-11	CARBON	1K	5%	1/4W	
R880 ⚠	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R881	1-249-421-11	CARBON	2.2K	5%	1/4W	
R882	1-249-421-11	CARBON	2.2K	5%	1/4W	
R883 ⚠	1-212-881-11	FUSIBLE	100	5%	1/4W	F

Ref. No.	Part No.	Description				Remarks
R901	1-202-725-00	SOLID	3.3M	10%	1/2W	
R902 ⚠	1-212-942-00	FUSIBLE	2.2	5%	1/2W	F
R8001	1-249-438-11	CARBON	56K	5%	1/4W	
R8501	1-249-438-11	CARBON	56K	5%	1/4W	
R9001 ⚠	1-212-942-00	FUSIBLE	2.2	5%	1/2W	F
R9002 ⚠	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
		〈 SWITCH 〉				
S901 ⚠	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (H433:E, EA)				
		〈 TRANSFORMER 〉				
T1 ⚠	1-450-417-11	TRANSFORMER, POWER (H422:CND)				
⚠	1-450-418-11	TRANSFORMER, POWER (H422:EE H433:AUS)				
⚠	1-450-419-11	TRANSFORMER, POWER (H433:E, EA)				
		〈 TERMINAL BOARD 〉				
TB101	1-537-238-21	TERMINAL BOARD				
TB801	1-537-156-21	TERMINAL BOARD (SPEAKER)				
**********						
*	1-634-841-11	SW-A BOARD (RA12), LEAF SW				
		**********				
	3-343-419-01	HOLDER (S SENSER A)				
		〈 CONNECTOR 〉				
CNP81 *	1-568-852-11	SOCKET, CONNECTOR 9P				
		〈 IC 〉				
IC81	8-719-710-03	IC PHOTO REFLECTOR NJL5165K-B				
		〈 RESISTOR 〉				
R84	1-249-417-11	CARBON	1K	5%	1/4W	
R85	1-249-408-11	CARBON	180	5%	1/4W	
		〈 SWITCH 〉				
S81	1-571-958-11	SWITCH, PUSH (1 KEY)				
S82	1-571-281-21	SWITCH, LEAF				
S86	1-571-281-21	SWITCH, LEAF				
**********						
*	A-2006-399-A	MD-A BOARD(RA12A), COMPLETE (DECK A)				
		**********				
		〈 CAPACITOR 〉				
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C12	1-136-157-00	FILM	0.022uF	5%	50V	
C13	1-124-234-00	ELECT	22uF	20%	16V	
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C22	1-136-157-00	FILM	0.022uF	5%	50V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

MD-A SW-A MD-B

Ref. No.	Part No.	Description			Remarks
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C71	1-164-346-11	CERAMIC CHIP	1uF		16V
		〈 CONNECTOR 〉			
CNJ31	* 1-580-782-11	CONNECTOR, BOARD TO BOARD			
CNP32	* 1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP71	* 1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CNP72	* 1-580-411-11	SOCKET, CONNECTOR 4P			
		〈 IC 〉			
IC31	8-759-970-66	IC LM833M-FL63			
		〈 CHIP JUMPER 〉			
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
		〈 TRANSISTOR 〉			
Q71	8-729-602-36	TRANSISTOR 2SA1602TP-1EF			
		〈 RESISTOR 〉			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		〈 VARIABLE RESISTOR 〉			
RV11	1-238-012-11	RES, ADJ, CARBON 1K			
RV21	1-238-012-11	RES, ADJ, CARBON 1K			
RV71	1-238-016-11	RES, ADJ, CARBON 10K			
RV72	1-238-016-11	RES, ADJ, CARBON 10K			

****

* 1-634-841-11 SW-A BOARD (RA12), LEAF SW (H422:CND)

****

3-343-419-01 HOLDER (S SENSER A) (H422:CND)

Ref. No.	Part No.	Description			Remarks
		〈 CONNECTOR 〉			
CNP81	* 1-568-852-11	SOCKET, CONNECTOR 9P (H422:CND)			
		〈 IC 〉			
IC81	8-719-710-03	IC PHOTO REFLECTOR NJL5165K-B (H422:CND)			
		〈 RESISTOR 〉			
R81	1-249-414-11	CARBON	560	5%	1/4W
R82	1-247-818-11	CARBON	300	5%	1/4W
R83	1-247-834-11	CARBON	1.3K	5%	1/4W
R84	1-249-417-11	CARBON	1K	5%	1/4W (H422:CND)
R85	1-249-408-11	CARBON	180	5%	1/4W (H422:CND)
		〈 SWITCH 〉			
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (H422:CND)			
S82	1-571-281-21	SWITCH, LEAF (H422:CND)			
S83	1-571-281-21	SWITCH, LEAF			
S84	1-571-281-21	SWITCH, LEAF			
S85	1-571-281-21	SWITCH, LEAF			
S86	1-571-281-21	SWITCH, LEAF (H422:CND)			

****

* A-2006-400-A MD-B BOARD(RB22A), COMPLETE (DECK B)

****

		〈 CAPACITOR 〉			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V (H422:CND)
C12	1-136-157-00	FILM	0.022uF	5%	50V (H422:CND)
C13	1-124-234-00	ELECT	22uF	20%	16V (H422:CND)
C14	1-136-273-91	FILM	75PF	5%	630V
C15	1-164-080-11	CERAMIC	390PF	10%	50V
C17	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (H422:CND)
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V (H422:CND)
C22	1-136-157-00	FILM	0.022uF	5%	50V (H422:CND)
C23	1-124-234-00	ELECT	22uF	20%	16V (H422:CND)
C24	1-136-273-91	FILM	75PF	5%	630V
C25	1-164-080-11	CERAMIC	390PF	10%	50V
C27	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V (H422:CND)
C31	1-124-234-00	ELECT	22uF	20%	16V (H422:CND)
C32	1-124-234-00	ELECT	22uF	20%	16V (H422:CND)
C33	1-124-234-00	ELECT	22uF	20%	16V
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C52	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C53	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C54	1-136-559-11	FILM	0.0047uF	5%	630V
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C57	1-164-346-11	CERAMIC CHIP	1uF		16V
C58	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C71	1-164-346-11	CERAMIC CHIP	1uF		16V (H422:CND)

When indicating parts by reference number, please include the board name.

MD-B PANEL HEADPHONE MIC VOL

Ref. No.	Part No.	Description				Remarks
		〈 CONNECTOR 〉				
CNJ31	* 1-580-782-11	CONNECTOR, BOARD TO BOARD (H422:CND)				
CNJ33	* 1-580-782-11	CONNECTOR, BOARD TO BOARD				
CNP32	* 1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P				
CNP71	* 1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P (H422:CND)				
CNP72	* 1-580-411-11	SOCKET, CONNECTOR 4P (H422:CND)				
		〈 DIODE 〉				
D31	8-719-988-62	DIODE 1SS355TE-17				
		〈 IC 〉				
IC31	8-759-970-66	IC LM833M-FL63 (H422:CND)				
		〈 CHIP JUMPER 〉				
JW1	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW3	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW5	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW6	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW7	1-216-295-00	METAL CHIP	0	5%	1/10W	
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W	(H422:CND)
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W	(H422:CND)
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W	(H422:CND)
JW55	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW56	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW57	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW58	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW59	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW60	1-216-296-00	METAL CHIP	0	5%	1/8W	
JW61	1-216-296-00	METAL CHIP	0	5%	1/8W	
		〈 COIL 〉				
L11	1-410-780-11	INDUCTOR	27mH			
L21	1-410-780-11	INDUCTOR	27mH			
		〈 TRANSISTOR 〉				
Q51	8-729-106-68	TRANSISTOR	2SD1615A-GP			
Q52	8-729-106-68	TRANSISTOR	2SD1615A-GP			
Q53	8-729-106-68	TRANSISTOR	2SD1615A-GP			
Q71	8-729-620-09	TRANSISTOR	2SA1602-EF (H422:CND)			
		〈 RESISTOR 〉				
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W	(H422:CND)
R12	1-216-025-00	METAL CHIP	100	5%	1/10W	(H422:CND)
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W	(H422:CND)
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	(H422:CND)
R15	1-249-430-11	CARBON	12K	5%	1/4W	
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	(H422:CND)
R22	1-216-025-00	METAL CHIP	100	5%	1/10W	(H422:CND)
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W	(H422:CND)
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	(H422:CND)
R25	1-249-430-11	CARBON	12K	5%	1/4W	
R31	1-216-033-00	METAL CHIP	220	5%	1/10W	(H422:CND)
R32	1-216-033-00	METAL CHIP	220	5%	1/10W	(H422:CND)
R41	1-249-393-11	CARBON	10	5%	1/4W	
R42	1-249-393-11	CARBON	10	5%	1/4W	
R51	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R52	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W	
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W	
R56	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W	(H422:CND)
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W	(H422:CND)
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W	(H422:CND)
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W	(H422:CND)
		〈 VARIABLE RESISTOR 〉				
RV11	1-238-012-11	RES, ADJ, CARBON 1K (H422:CND)				
RV12	1-238-551-11	RES, ADJ, CARBON 220K				
RV21	1-238-012-11	RES, ADJ, CARBON 1K (H422:CND)				
RV22	1-238-551-11	RES, ADJ, CARBON 220K				
RV71	1-238-016-11	RES, ADJ, CARBON 10K (H422:CND)				
RV72	1-238-016-11	RES, ADJ, CARBON 10K (H422:CND)				
		〈 RELAY 〉				
RY31	1-515-726-11	RELAY				
		〈 COIL 〉				
T51	1-406-419-11	COIL, BIAS OSCILLATION				
**********						
	* A-4341-821-A	PANEL BOARD, COMPLETE (H422:EE)				
		**********				
	* A-4341-827-A	PANEL BOARD, COMPLETE (H422:CND)				
		**********				
	* A-4341-831-A	PANEL BOARD, COMPLETE (H433)				
		**********				
	* A-4341-824-A	HEADPHONE MIC BOARD, COMPLETE (H422)				
		**********				
	* A-4341-834-A	HEADPHONE MIC BOARD, COMPLETE (H433)				
		**********				
	* 1-638-361-11	VOL BOARD				
		*********				
	* 4-932-810-01	CUSHION (FL)				
	* 4-945-559-01	HOLDER (FL)				
		〈 CAPACITOR 〉				
C501	1-125-486-11	DUBLE LAYERS	0.22F		5.5V	
C502	1-164-336-11	CERAMIC CHIP	0.33uF		25V	
C503	1-163-094-00	CERAMIC CHIP	11PF	5%	50V	
C504	1-163-094-00	CERAMIC CHIP	11PF	5%	50V	
C505	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C506	1-163-227-11	CERAMIC CHIP	10PF	5%	50V	

When indicating parts by reference number, please include the board name.

PANEL HEADPHONE MIC VOL

Ref. No.	Part No.	Description				Remarks
C507	1-163-227-11	CERAMIC CHIP	10PF	5%	50V	
C508	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C509	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C510	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C511	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C512	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C513	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C514	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C515	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C516	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V	
C517	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C518	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
C519	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C520	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C521	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C522	1-164-222-11	CERAMIC CHIP	0.22uF		25V	
C523	1-163-034-00	CERAMIC CHIP	0.033uF		50V	
C524	1-124-902-00	ELECT	0.47uF	20%	50V	
C525	1-163-034-00	CERAMIC CHIP	0.033uF		50V	
C526	1-124-925-11	ELECT	2.2uF	20%	100V	
C527	1-126-925-11	ELECT	470uF	20%	10V	
C528	1-163-034-00	CERAMIC CHIP	0.033uF		50V	
C529	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C530	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C531	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C532	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C562	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C563	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C564	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C565	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C566	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V	
C567	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C568	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
C569	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C570	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C571	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C572	1-164-222-11	CERAMIC CHIP	0.22uF		25V	
C573	1-163-034-00	CERAMIC CHIP	0.033uF		50V	
C574	1-124-902-00	ELECT	0.47uF	20%	50V	
C575	1-163-034-00	CERAMIC CHIP	0.033uF		50V	
C576	1-124-925-11	ELECT	2.2uF	20%	100V	
C580	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C601	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	(H433)
C602	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	(H433)
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V	(H433)
C604	1-126-101-11	ELECT	100uF	20%	16V	(H433)
C605	1-126-101-11	ELECT	100uF	20%	16V	(H433)
C606	1-163-038-00	CERAMIC CHIP	0.1uF		25V	(H433)
C607	1-124-910-11	ELECT	47uF	20%	50V	(H433)
C608	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	(H433)
C609	1-164-346-11	CERAMIC CHIP	1uF		16V	(H433)
C610	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V	(H433)

Ref. No.	Part No.	Description				Remarks
C611	1-124-903-11	ELECT	1uF	20%	50V	(H433)
C612	1-164-232-11	CERAMIC CHIP	0.01uF		50V	(H433)
C613	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	(H433)
C614	1-124-903-11	ELECT	1uF	20%	50V	(H433)
C615	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V	(H433)
C616	1-164-232-11	CERAMIC CHIP	0.01uF		50V	(H433)
C617	1-163-038-00	CERAMIC CHIP	0.1uF		25V	(H433)
C618	1-163-038-00	CERAMIC CHIP	0.1uF		25V	(H433)
C619	1-163-038-00	CERAMIC CHIP	0.1uF		25V	(H433)
C620	1-164-232-11	CERAMIC CHIP	0.01uF		50V	(H433)
C621	1-163-038-00	CERAMIC CHIP	0.1uF		25V	(H433)
C622	1-164-232-11	CERAMIC CHIP	0.01uF		50V	(H433)
C623	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C624	1-124-903-11	ELECT	1uF	20%	50V	
C625	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C626	1-124-903-11	ELECT	1uF	20%	50V	
C627	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	(H433)
C628	1-124-903-11	ELECT	1uF	20%	50V	(H433)
C629	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	(H433)
C630	1-124-903-11	ELECT	1uF	20%	50V	(H433)
C631	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C632	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C633	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C634	1-124-907-11	ELECT	10uF	20%	50V	(H433)
C635	1-126-176-11	ELECT	220uF	20%	10V	
C636	1-124-907-11	ELECT	10uF	20%	50V	
C637	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C638	1-126-101-11	ELECT	100uF	20%	16V	
C639	1-124-903-11	ELECT	1uF	20%	50V	
C640	1-163-038-00	CERAMIC CHIP	0.1uF		25V	(H433)
C681	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C682	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C683	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C686	1-124-907-11	ELECT	10uF	20%	50V	
C687	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C689	1-124-903-11	ELECT	1uF	20%	50V	
C801	1-124-907-11	ELECT	10uF	20%	50V	(H422:CND)
C802	1-126-233-11	ELECT	22uF	20%	50V	
C803	1-124-907-11	ELECT	10uF	20%	50V	
C804	1-124-907-11	ELECT	10uF	20%	50V	
C805	1-124-907-11	ELECT	10uF	20%	50V	
C806	1-124-907-11	ELECT	10uF	20%	50V	
C807	1-126-925-11	ELECT	470uF	20%	10V	
C856	1-124-907-11	ELECT	10uF	20%	50V	

〈 CONNECTOR 〉

CN501	* 1-564-519-11	PLUG, CONNECTOR 4P	
CN502	* 1-573-049-11	SOCKET, CONNECTOR 11P	
CN503	* 1-569-156-11	SOCKET, CONNECTOR 10P	
CN504	* 1-565-364-11	HOUSING, CONNECTOR(PC BOARD)11P	
CN505	* 1-565-364-11	HOUSING, CONNECTOR(PC BOARD)11P	
CN601	* 1-565-365-11	PIN, CONNECTOR (PC BOARD) 11P	

When indicating parts by reference number, please include the board name.

PANEL HEADPHONE MIC VOL

Ref. No.	Part No.	Description	Remarks
CN801	* 1-565-365-11	PIN, CONNECTOR (PC BOARD) 11P	
CN802	* 1-564-519-11	PLUG, CONNECTOR 4P	
		〈 DIODE 〉	
D501	8-719-301-37	DIODE SEL2210S-CD	
D502	8-719-301-37	DIODE SEL2210S-CD	
D503	8-719-301-37	DIODE SEL2210S-CD	
D504	8-719-301-37	DIODE SEL2210S-CD	
D505	8-719-301-37	DIODE SEL2210S-CD	
D506	8-719-988-62	DIODE 1SS355	
D507	8-719-988-62	DIODE 1SS355	
D508	8-719-988-62	DIODE 1SS355	
D509	8-719-988-62	DIODE 1SS355	
D510	8-719-988-62	DIODE 1SS355	
D511	8-719-988-62	DIODE 1SS355	
D512	8-719-988-62	DIODE 1SS355	
D513	8-719-988-62	DIODE 1SS355	
D514	8-719-988-62	DIODE 1SS355	
D515	8-719-988-62	DIODE 1SS355	
D517	8-719-988-62	DIODE 1SS355 (H422:EE H433)	
D518	8-719-988-62	DIODE 1SS355 (H422)	
D519	8-719-988-62	DIODE 1SS355	
D520	8-719-988-62	DIODE 1SS355	
D521	8-719-988-62	DIODE 1SS355	
D601	8-719-988-62	DIODE 1SS355	
		〈 INDICATOR TUBE 〉	
FL501	1-519-661-11	INDICATOR TUBE, FLUORESCENT	
		〈 IC 〉	
IC501	8-759-246-17	IC TMP47C8700N	
IC502	8-749-920-83	IC GP1U52XB	
IC503	8-759-239-78	IC TC89101P	
IC504	8-759-636-55	IC M5218AFP	
IC505	8-759-630-99	IC M5226FP	
IC555	8-759-630-99	IC M5226FP	
IC601	8-759-636-22	IC M50197FP (H433)	
IC602	8-759-636-55	IC M5218AFP	
IC801	8-759-820-62	IC LB1639	
		〈 JACK 〉	
J601	1-562-837-21	JACK	
J602	1-562-837-21	JACK	
J603	1-562-837-21	JACK (H433)	
		〈 CHIP JUMPER 〉	
JR501	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR502	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR503	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR504	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR505	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR506	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR507	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR508	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR509	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR510	1-216-296-00	METAL CHIP 0 5% 1/8W	(H422)
JR511	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR512	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR601	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR602	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR603	1-216-296-00	METAL CHIP 0 5% 1/8W	(H433)
JR604	1-216-296-00	METAL CHIP 0 5% 1/8W	(H433)
JR605	1-216-296-00	METAL CHIP 0 5% 1/8W	(H433)
JR801	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR802	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR803	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR804	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR805	1-216-296-00	METAL CHIP 0 5% 1/8W	
		〈 TRANSISTOR 〉	
Q501	8-729-805-41	TRANSISTOR 2SC3398	
Q502	8-729-602-21	TRANSISTOR 2SC4154-F	
Q601	8-729-106-68	TRANSISTOR 2SD1615A-GP (H433)	
Q602	8-729-602-21	TRANSISTOR 2SC4154-F	
Q603	8-729-602-21	TRANSISTOR 2SC4154-E (H433)	
Q801	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q802	8-729-805-42	TRANSISTOR 2SC3859	
Q803	8-729-805-42	TRANSISTOR 2SC3859	
Q852	8-729-805-42	TRANSISTOR 2SC3859	
Q853	8-729-805-42	TRANSISTOR 2SC3859	
		〈 RESISTOR 〉	
R501	1-216-045-00	METAL CHIP 680 5% 1/10W	
R502	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R503	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R504	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R507	1-216-045-00	METAL CHIP 680 5% 1/10W	
R508	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R509	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R510	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R511	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R512	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R513	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R514	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R515	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R516	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R517	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R518	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R519	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R520	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R521	1-216-080-00	METAL CHIP 20K 5% 1/10W	
R522	1-216-073-00	METAL CHIP 10K 5% 1/10W	(H433)
R524	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R525	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R527	1-216-073-00	METAL CHIP 10K 5% 1/10W	(H433)

When indicating parts by reference number, please include the board name.

PANEL | HEADPHONE MIC | VOL

Ref. No.	Part No.	Description				Remarks
R528	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R529	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R530	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R531	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R532	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R533	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R534	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R537	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R538	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R539	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R540	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R541	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R542	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R543	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R579	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R580	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R581	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R582	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R583	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R601	1-216-073-00	METAL CHIP	10K	5%	1/10W	(H433)
R602	1-216-077-00	METAL CHIP	15K	5%	1/10W	(H433)
R603	1-216-077-00	METAL CHIP	15K	5%	1/10W	(H433)
R604	1-216-081-00	METAL CHIP	22K	5%	1/10W	(H433)
R605	1-216-060-00	METAL GLAZE	3K	5%	1/10W	(H433)
R606	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	(H433)
R607	1-216-077-00	METAL CHIP	15K	5%	1/10W	(H433)
R608	1-216-077-00	METAL CHIP	15K	5%	1/10W	(H433)
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W	(H433)
R610	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	(H433)
R611	1-216-094-00	METAL GLAZE	75K	5%	1/10W	(H433)
R612	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	(H433)
R613	1-216-094-00	METAL GLAZE	75K	5%	1/10W	(H433)
R614	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	(H433)
R615	1-216-043-00	METAL CHIP	560	5%	1/10W	(H433)
R616	1-216-045-00	METAL CHIP	680	5%	1/10W	
R617	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R618	1-216-060-00	METAL GLAZE	3K	5%	1/10W	
R619	1-216-025-00	METAL CHIP	100	5%	1/10W	
R620	1-216-045-00	METAL CHIP	680	5%	1/10W	(H433)
R621	1-216-109-00	METAL CHIP	330K	5%	1/10W	(H433)
R622	1-216-060-00	METAL GLAZE	3K	5%	1/10W	(H433)
R623	1-216-025-00	METAL CHIP	100	5%	1/10W	(H433)
R624	1-216-121-00	METAL CHIP	1M	5%	1/10W	(H433)
R625	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R626	1-216-025-00	METAL CHIP	100	5%	1/10W	
R627	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R628	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R629	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R630	1-216-017-00	METAL CHIP	47	5%	1/10W	
R631	1-216-025-00	METAL CHIP	100	5%	1/10W	
R632	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R633	1-216-097-00	METAL CHIP	100K	5%	1/10W	(H433)
R634	1-216-035-00	METAL CHIP	270	5%	1/10W	
R635	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R636	1-216-089-00	METAL CHIP	47K	5%	1/10W	(H433)
R676	1-216-025-00	METAL CHIP	100	5%	1/10W	
R677	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R678	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R679	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R680	1-216-017-00	METAL CHIP	47	5%	1/10W	
R801	1-216-043-00	METAL CHIP	560	5%	1/10W	
R802	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R803	1-216-045-00	METAL CHIP	680	5%	1/10W	
R804	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R805	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R806	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R807	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R808	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R809	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R856	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R857	1-216-049-00	METAL CHIP	1K	5%	1/10W	

⟨ VARIABLE RESISTOR ⟩

RV501	1-238-069-11	REA, VAR, CARBON 50K (MIC 1)	(H433)
RV502	1-238-069-11	REA, VAR, CARBON 50K (DIGTAL ECHO)	(H433)
RV503	1-238-069-11	REA, VAR, CARBON 50K (MIC 2)	(H433)
RV504	1-241-531-11	RES, VAR, CARBON 100K/100K (DBFB)	
RV505	1-241-530-11	RES, VAR, CARBON 100K (BALANCE)	(H422)
RV506	1-238-867-11	RES, VAR, SLIDE 250K (100Hz)	
RV507	1-238-867-11	RES, VAR, SLIDE 250K (400Hz)	
RV508	1-238-867-11	RES, VAR, SLIDE 250K (1kHz)	
RV509	1-238-867-11	RES, VAR, SLIDE 250K (4kHz)	
RV510	1-238-867-11	RES, VAR, SLIDE 250K (12kHz)	
RV556	1-238-867-11	RES, VAR, SLIDE 250K (100Hz)	
RV557	1-238-867-11	RES, VAR, SLIDE 250K (400Hz)	
RV558	1-238-867-11	RES, VAR, SLIDE 250K (1kHz)	
RV559	1-238-867-11	RES, VAR, SLIDE 250K (4kHz)	
RV560	1-238-867-11	RES, VAR, SLIDE 250K (12kHz)	
RV801	1-241-419-21	RES, VAR, CARBON 100KX2 (VOLUME)	

⟨ SWITCH ⟩

S501	1-572-184-11	SWITCH, KEYBOARD (CLOCK)
S502	1-572-184-11	SWITCH, KEYBOARD (TIMER SET)
S503	1-572-184-11	SWITCH, KEYBOARD (TIMER CONTROL)
S504	1-572-184-11	SWITCH, KEYBOARD (FUNCTION)
S505	1-572-184-11	SWITCH, KEYBOARD (-)
S506	1-572-184-11	SWITCH, KEYBOARD (BAND)
S507	1-572-184-11	SWITCH, KEYBOARD (MEMORY/NEXT)
S508	1-572-184-11	SWITCH, KEYBOARD (POWER)
S509	1-572-184-11	SWITCH, KEYBOARD (+)
S510	1-572-184-11	SWITCH, KEYBOARD (PRESET/TUNING)
S511	1-572-531-11	SWITCH, ROTARY (MULTIPLEX) (H433)

⟨ CRYSTAL VIBRATOR ⟩

X501	1-567-821-21	VIBRATOR, CRYSTAL (4.19MHz)

When indicating parts by reference number, please include the board name.

PANEL | HEADPHONE MIC | VOL | TC-MAIN

Ref. No.	Part No.	Description			Remarks
X502	1-527-997-21	VIBRATOR, CRYSTAL (32kHz)			
X601	1-567-192-11	RESONATOR, CERAMIC (4.00MHz) (H433)			
**********					
	* A-4341-829-A	TC MAIN BOARD, COMPLETE			
		**********			
		(CAPACITOR)			
C201	1-136-158-00	FILM	0.027uF	5%	50V
C202	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C203	1-124-254-00	ELECT	0.68uF	20%	50V
C204	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C205	1-164-346-11	CERAMIC CHIP	1uF		16V
C206	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C207	1-126-157-11	ELECT	10uF	20%	16V
C208	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C209	1-164-346-11	CERAMIC CHIP	1uF		16V
C301	1-136-158-00	FILM	0.027uF	5%	50V
C302	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C303	1-124-254-00	ELECT	0.68uF	20%	50V
C304	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C305	1-164-346-11	CERAMIC CHIP	1uF		16V
C306	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C307	1-126-157-11	ELECT	10uF	20%	16V
C308	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C309	1-164-346-11	CERAMIC CHIP	1uF		16V
C401	1-124-443-00	ELECT	100uF	20%	10V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C404	1-124-443-00	ELECT	100uF	20%	10V
C405	1-124-443-00	ELECT	100uF	20%	10V
C406	1-164-346-11	CERAMIC CHIP	1uF		16V
C407	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C408	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C409	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C410	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C411	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C412	1-164-346-11	CERAMIC CHIP	1uF		16V
C413	1-124-443-00	ELECT	100uF	20%	10V
C414	1-124-443-00	ELECT	100uF	20%	10V
C415	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C416	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C417	1-124-443-00	ELECT	100uF	20%	10V
C418	1-124-443-00	ELECT	100uF	20%	10V
C419	1-124-443-00	ELECT	100uF	20%	10V
C421	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C422	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C423	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C424	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C425	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C426	1-124-478-11	ELECT	100uF	20%	25V
C427	1-124-478-11	ELECT	100uF	20%	25V
C428	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C429	1-126-926-11	ELECT	1000uF	20%	10V
C4001	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C4002	1-164-232-11	CERAMIC CHIP	0.01uF		50V
		(CONNECTOR)			
CN402	1-573-101-11	SOCKET, CONNECTOR 9P			
CN403	1-580-783-11	CONNECTOR, BOARD TO BOARD			
CN404	1-573-101-11	SOCKET, CONNECTOR 9P			
CN405	1-580-783-11	CONNECTOR, BOARD TO BOARD			
CN406	1-580-783-11	CONNECTOR, BOARD TO BOARD			
CN407	* 1-568-858-11	SOCKET, CONNECTOR 15P			
CN408	* 1-580-476-11	SOCKET, CONNECTOR 15P			
		(DIODE)			
D401	8-719-210-33	DIODE	EC10DS2		
D402	8-719-210-33	DIODE	EC10DS2		
D403	8-719-988-62	DIODE	1SS355		
D404	8-719-106-43	DIODE	RD9.1M-B1		
D405	8-719-106-43	DIODE	RD9.1M-B1		
D406	8-719-106-43	DIODE	RD9.1M-B1		
D407	8-719-988-62	DIODE	1SS355		
D408	8-719-988-62	DIODE	1SS355		
D409	8-719-988-62	DIODE	1SS355		
D410	8-719-988-62	DIODE	1SS355		
D411	8-719-988-62	DIODE	1SS355		
D412	8-719-988-62	DIODE	1SS355		
D413	8-719-988-62	DIODE	1SS355		
D4001	8-719-988-62	DIODE	1SS355		
		(IC)			
IC201	8-759-300-71	IC	MC14053BFP		
IC202	8-752-030-90	IC	CXA1011M		
IC203	8-759-981-95	IC	RC4558S		
IC204	8-759-516-47	IC	CD4066BCM-FL63		
IC205	8-752-056-00	IC	CXA1398M		
IC401	8-759-636-69	IC	M50964-251FP		
IC402	8-759-207-05	IC	TA7272P		
IC403	8-759-981-95	IC	RC4558S		
		(COIL)			
L403	1-410-482-31	INDUCTOR	100uH		
L404	1-410-482-31	INDUCTOR	100uH		
		(TRANSISTOR)			
Q201	8-729-805-41	TRANSISTOR	2SC3398		
Q202	8-729-805-41	TRANSISTOR	2SC3398		
Q301	8-729-805-41	TRANSISTOR	2SC3398		
Q302	8-729-805-41	TRANSISTOR	2SC3398		
Q401	8-729-804-41	TRANSISTOR	2SB1122-S		
Q402	8-729-804-41	TRANSISTOR	2SB1122-S		
Q403	8-729-805-65	TRANSISTOR	2SA1344		

When indicating parts by reference number, please include the board name.

TC-MAIN

Ref. No.	Part No.	Description				Remarks
Q404	8-729-805-41	TRANSISTOR	2SC3398			
Q405	8-729-805-65	TRANSISTOR	2SA1344			
Q406	8-729-805-65	TRANSISTOR	2SA1344			
Q407	8-729-805-65	TRANSISTOR	2SA1344			
Q408	8-729-805-65	TRANSISTOR	2SA1344			
Q409	8-729-805-69	TRANSISTOR	2SA1341			
Q410	8-729-805-69	TRANSISTOR	2SA1341			
Q411	8-729-805-41	TRANSISTOR	2SC3398			
Q412	8-729-805-65	TRANSISTOR	2SA1344			
Q413	8-729-805-41	TRANSISTOR	2SC3398			
		〈 RESISTOR 〉				
R201	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R202	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R203	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R204	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R205	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R206	1-216-025-00	METAL CHIP	100	5%	1/10W	
R207	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R208	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R209	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R210	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R211	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R212	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R214	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R215	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R301	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R302	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R303	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R304	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R305	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R306	1-216-025-00	METAL CHIP	100	5%	1/10W	
R307	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R308	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R309	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R310	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R311	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R312	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R313	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R314	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R315	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R401	1-216-037-00	METAL CHIP	330	5%	1/10W	
R402	1-216-037-00	METAL CHIP	330	5%	1/10W	
R403	1-216-037-00	METAL CHIP	330	5%	1/10W	
R404	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R405	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R406	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R407	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R408	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R409	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R410	1-216-045-00	METAL CHIP	680	5%	1/10W	
R412	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R413	1-216-045-00	METAL CHIP	680	5%	1/10W	
R414	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R415	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R416	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R417	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R418	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R419	1-216-084-00	METAL GLAZE	30K	5%	1/10W	
R420	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R421	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R422	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R423	1-216-080-00	METAL CHIP	20K	5%	1/10W	
R424	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R425	1-216-025-00	METAL CHIP	100	5%	1/10W	
R426	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R427	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R428	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R429	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R430	1-216-084-00	METAL GLAZE	30K	5%	1/10W	
R431	1-216-080-00	METAL CHIP	20K	5%	1/10W	
R432	1-216-090-00	METAL CHIP	51K	5%	1/10W	
R433	1-216-025-00	METAL CHIP	100	5%	1/10W	
R434	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R435	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R436	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R437	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R438	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R439	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R440	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R441	1-216-041-00	METAL CHIP	470	5%	1/10W	
R442	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R443	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R444	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R445	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R446	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R447	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R448	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R449	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R450	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R451	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R452	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R453	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R454	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R455	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R456	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R457	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R458	1-216-088-00	METAL CHIP	43K	5%	1/10W	
R459	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R460	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R461	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R462	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R463	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R464	1-216-073-00	METAL CHIP	10K	5%	1/10W	

When indicating parts by reference number, please include the board name.

TC-MAIN TC-SWITCH

Ref. No.	Part No.	Description				Remarks
R466	1-216-025-00	METAL CHIP	100	5%	1/10W	
R467	1-216-025-00	METAL CHIP	100	5%	1/10W	
R468	1-216-025-00	METAL CHIP	100	5%	1/10W	
R469	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R470	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R499	1-249-390-11	CARBON	5.6	5%	1/6W	
R2001	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R4001	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4002	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4003	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4004	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4005	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4006	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4007	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4008	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R4009	⚠ 1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R4010	⚠ 1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
		〈 VARIABLE RESISTOR 〉				
RV201	1-238-547-11	RES, ADJ, CARBON 10K				
RV301	1-238-547-11	RES, ADJ, CARBON 10K				
		〈 PLUG CONNECTOR 〉				
TP201	* 1-564-518-11	PLUG, CONNECTOR 3P				
TP401	* 1-564-517-11	PLUG, CONNECTOR 2P				
		〈 CRYSTAL VIBRATOR 〉				
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHz)				
**********						
	* A-4341-835-A	TC SWITCH BOARD, COMPLETE				
		**********				
		〈 CONNECTOR 〉				
CN471	* 1-580-417-11	SOCKET, CONNECTOR 15P				
		〈 DIODE 〉				
D471	8-719-984-17	DIODE GL1EG112-CD				
D472	8-719-984-17	DIODE GL1EG112-CD				
D473	8-719-984-15	DIODE GL1HD12-DE				
D474	8-719-984-15	DIODE GL1HD12-DE				
D475	8-719-984-16	DIODE GL1HY112-CD				
D476	8-719-984-17	DIODE GL1EG112-CD				
D477	8-719-984-17	DIODE GL1EG112-CD				
		〈 CHIP JUMPER 〉				
JR471	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR472	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR473	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR474	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR475	1-216-296-00	METAL CHIP	0	5%	1/8W	

Ref. No.	Part No.	Description				Remarks
JR476	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR477	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR478	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR479	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR480	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR481	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR482	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR483	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR484	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR485	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR486	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR487	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR488	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR489	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR490	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR491	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR492	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR493	1-216-296-00	METAL CHIP	0	5%	1/8W	
		〈 TRANSISTOR 〉				
Q471	8-729-805-65	TRANSISTOR 2SA1344				
Q472	8-729-805-65	TRANSISTOR 2SA1344				
		〈 RESISTOR 〉				
R471	1-216-037-00	METAL CHIP	330	5%	1/10W	
R472	1-216-037-00	METAL CHIP	330	5%	1/10W	
R473	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R474	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R475	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R476	1-216-029-00	METAL CHIP	150	5%	1/10W	
R477	1-216-033-00	METAL CHIP	220	5%	1/10W	
R478	1-216-037-00	METAL CHIP	330	5%	1/10W	
R479	1-216-041-00	METAL CHIP	470	5%	1/10W	
R480	1-216-045-00	METAL CHIP	680	5%	1/10W	
R481	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R482	1-216-029-00	METAL CHIP	150	5%	1/10W	
R483	1-216-033-00	METAL CHIP	220	5%	1/10W	
R484	1-216-037-00	METAL CHIP	330	5%	1/10W	
R485	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R486	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R487	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R488	1-216-075-00	METAL CHIP	12K	5%	1/10W	
		〈 SWITCH 〉				
S471	1-572-184-11	SWITCH, KEYBOARD (□)				
S472	1-572-184-11	SWITCH, KEYBOARD (▷)				
S473	1-572-184-11	SWITCH, KEYBOARD (◁)				
S474	1-572-184-11	SWITCH, KEYBOARD (◁◁)				
S475	1-572-184-11	SWITCH, KEYBOARD (▷▷)				
S476	1-572-184-11	SWITCH, KEYBOARD (○)				
S477	1-572-184-11	SWITCH, KEYBOARD (HIGH SPEED DUBBING)				
S478	1-572-184-11	SWITCH, KEYBOARD (□)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

TC-SWITCH

Ref. No.	Part No.	Description	Remarks
S479	1-572-184-11	SWITCH, KEYBOARD (□□)	
S480	1-572-184-11	SWITCH, KEYBOARD (▷)	
S481	1-572-184-11	SWITCH, KEYBOARD (◁)	
S482	1-572-184-11	SWITCH, KEYBOARD (◁◁)	
S483	1-572-184-11	SWITCH, KEYBOARD (▷▷)	
S484	1-570-849-11	SWITCH, SLIDE (DOLBY NR)	
S485	1-570-837-11	SWITCH, SLIDE (DIRECTION MODE)	

****

MISCELLANEOUS
****

10	1-501-270-00	ANTENNA, TELESCOPIC	
23	1-590-902-11	WIRE, FLAT TYPE (9 CORE)	
24	1-690-094-11	WIRE, FLAT TYPE (15 CORE)	
117	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
HP101	A-2003-837-A	BASE ASSY, HEAD (DECK A)	
HRP101	A-2003-838-A	BASE ASSY, HEAD (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	

****

Ref. No.	Part No.	Description	Remarks
		ACCESSORY & PACKING MATERIAL	
		**********	
	1-465-716-11	REMOTE COMMANDER	
	3-694-922-01	SHEET, PROTECTION	
*	4-944-001-01	CUSHION, UPPER	
	4-944-002-01	CUSHION, LOWER	

****

【HARDWARE LIST】

# 1	7-682-547-04	SCREW +BVTT 3X6 (S)	
# 2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
# 3	7-682-549-09	SCREW +BVTT 3X10 (S)	
# 4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
# 5	7-685-659-79	SCREW +BVTP 4X8 TYPE2 IT-3	
# 6	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
# 7	7-685-649-79	SCREW +BVTP 3X14 TYPE2 N-S	
# 8	7-621-255-15	SCREW +PTT 2X3 (S)	
# 9	7-621-770-67	SCREW +PTT 2.6X6 (S)	
#10	7-621-775-00	SCREW +B 2.6X3	
#11	7-627-556-08	SCREW +P 2.6X2.8	

When indicating parts by reference number, please include the board name.

9-956-378-11

Sony Corporation
Audio Group

English
91F1927-1
Printed in Japan
© 1991.6
Published by Customer Relations and Service Group